

The class of macro camera of the Galaxy A51 is what users rarely see

Only by detaching the 5MP macro camera on the Galaxy A51, Samsung showed its vision and intelligence in the product development process.

By 2020, every phone has a very large number of dots, the number of sensors is increasing rapidly, just less than tens of million can also buy a phone with 4 or 5 cameras to capture everything from near to near.

At a glance, everyone thinks that every machine is similar, there is no difference. From the main camera with large aperture, high resolution to super wide-angle camera or depth measurement, almost every device will "linger" in terms of features, and the difference lies only in the final image quality.



Smartphones with many cameras and lots of dots are nice, but not all models are the same.

But on closer inspection, we will see a few products that have really different camera systems. For example, the Galaxy A51 launched not too long ago. This model, in addition to the main camera with super high resolution, 123-degree wide-angle camera and sensor that supports background capture, has an additional camera, exclusively for the needs of macro close-ups.

Currently, there are some brands that also advertise super close-up macro photography on their smartphones, but this feature is integrated into the ultra-wide angle camera. This is also beneficial in saving component costs,

reducing the price, but also can reduce the quality of the image compared to when separating the two modes.



Not only is it a separate mode, the Galaxy A51's macro lens also has a separate image sensor.



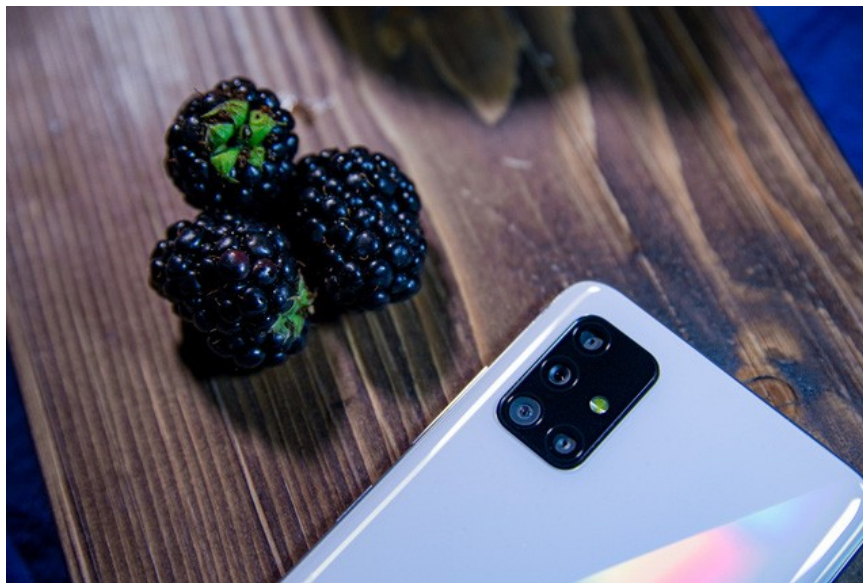
It is hard to believe that the 5MP macro camera on smartphones is good enough for this photo quality.



Even the average user can capture close-ups with high quality.

Why is Samsung separating these two features?

The first is because the Galaxy A51's wide-angle camera has a shooting angle of up to 123 degrees, equivalent to 12mm on a professional camera, compared to only 16 - 17mm on most smartphones of the same level. If you integrate macro shooting capabilities here, the perspective of the image will be greatly distorted, background blur is also greatly reduced. In general, it is not as impressive as shooting with a narrower angle, about 30mm.



Integrating a macro lens into a super wide-angle camera will inadvertently reduce the experience of close-up shooting.

In addition, Samsung is strong enough to provide a "home-grown" image sensor, so there is no reason to regret it. In just a few years, the company has rapidly developed and upgraded its own image sensors with quality not inferior to the world's leading manufacturers. For example, on the Galaxy S and Note series flagships, reviews and tests have shown that, despite using two different types of sensors, the image quality is still the same.

Talking about image quality, of course, it is impossible to ignore the processing power with software that Samsung has been working hard in recent years. As can be seen, Samsung's current models are rated well for color, detail handling and dynamic range - thanks to a series of intelligent algorithms, automatically optimizing photos both before and after. when shooting.

Thanks to these advantages, we can understand why Samsung has separated the macro camera on the Galaxy A51, and why the photos taken from the device are so great quality.

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