

Oppo reveals selfie camera cluster under the world's first screen

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Oppo has just officially released information about its first phone (and also the first in the world) equipped with selfie camera integrated under the screen at Mobile World Congress Shanghai this year. The move did not create too many surprises for observers because a few weeks ago, Chinese smartphone manufacturers "teased" a little bit of information about the technology of camera integration under the screen via a Twitter post. .

1. OPPO's new technology allows calling, texting without mobile network or WiFi



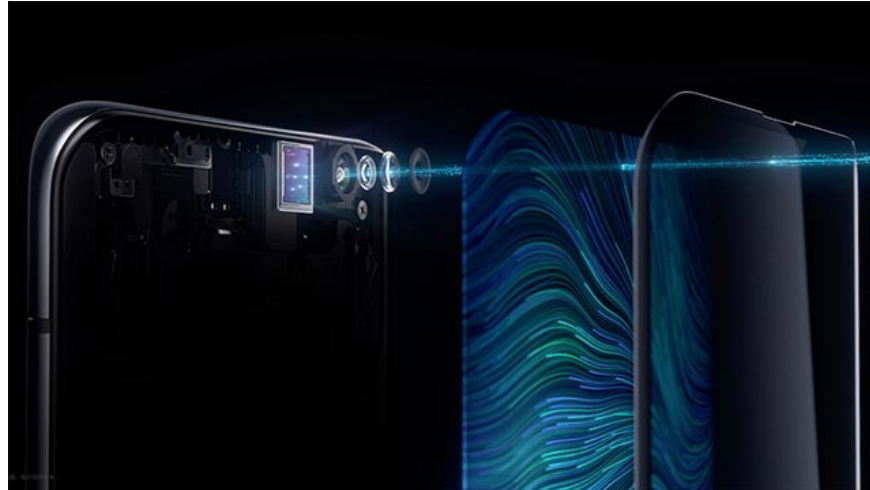
Oppo revealed information about selfie camera clusters integrated under the screen on Twitter

This remarkable technology is Oppo's latest effort to maximize all the components on the front to create a completely borderless smartphone. Previously, this manufacturer has gained quite a lot of success with the

method of hiding selfie camera and sensors in the camera body through a sliding mechanism. However, this approach still seems to be a situational solution because it contains many major drawbacks, typically dust and durability after a long time of use.

Return to the most optimal plan: Integrating camera cluster under the screen. To make this technology a reality, Oppo used a special camera module cluster with transparent lenses. At the same time, this sensor will also have to be large in size with higher resolution than normal to avoid light refraction. In addition, the manufacturer uses a combination of algorithms for multi-frame HDR mode, blurring and adjusting white balance to make images as realistic as shooting with standard selfie cameras.

1. Ranking the world's 10 most powerful Android smartphones in the first half of 2019



Oppo's first camera cluster under the world screen

The display is made of a transparent material, in addition Oppo has redesigned the pixel structure of the screen to allow light to pass through the lens and to the screen more efficiently. This screen area can still display and manipulate the touch as usual. However, when activating the selfie feature, it will become transparent and of course cannot be manipulated.

In related news, earlier this month, vice president of Oppo company Shen Brian said on the Chinese social networking site Weibo that this first-screen camera version would have to sacrifice some quality. image, because the effects of screen flare and color are untrue will affect the quality of photos, but promise that the overall quality of the photo after shooting still ensures the requirements of most users. The Chinese manufacturer is said to be working on more advanced image processing algorithms.

1. Google successfully developed facial deformation algorithms, making selfie images can achieve high accuracy



The camera cluster under this screen will have to sacrifice some image quality

At the MWC Thuong Hai event this year, Oppo just nighted to a display prototype and could not experience it. The Chinese manufacturer said it has just started researching this new technology since 2017 and officially embarked on the creation of a prototype prototype in May 2018. Until now, Oppo has not yet confirmed whether or not to have this camera cluster application on commercial products, but this will certainly be a new breeze blowing into the very gloomy smartphone market, and it is likely that we will see more of these. Integrated camera cluster under the screen, even more optimal, in the next few years.

1. Leaking clear image of Samsung Galaxy Note 10 Pro: A lot of design improvements

There is still a lot of work to do to launch a smartphone with a built-in camera complete, but this will be a technology that has a great influence on the development of the smartphone world.

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