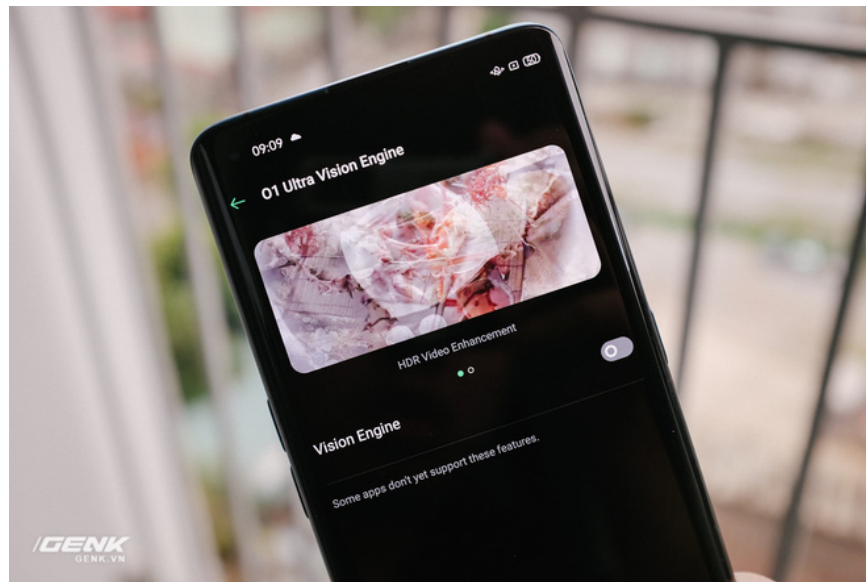


Learn the O1 Ultra Vision image enhancement feature on Find X2 series, turn SDR into HDR and every frame-rate to 120Hz

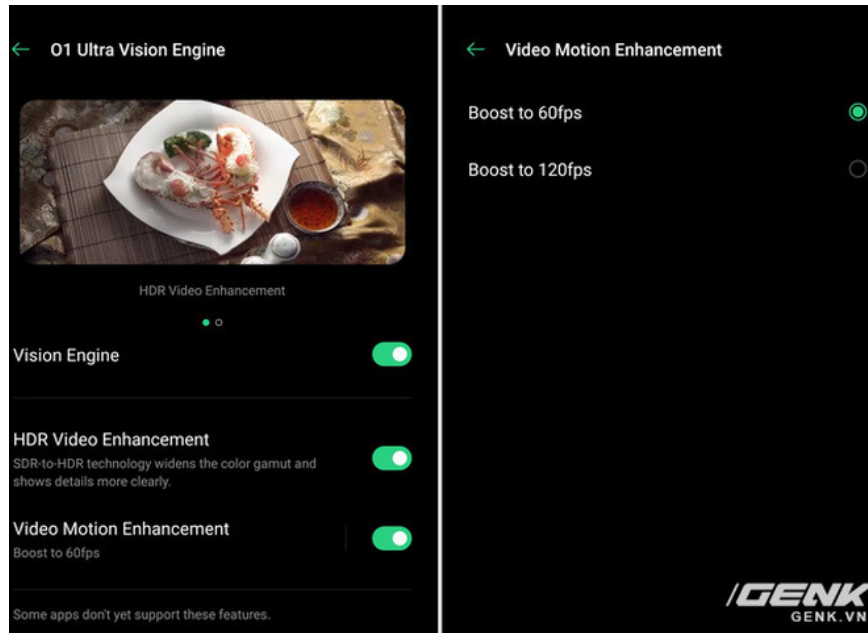
This feature is used for watching movies, so it's fine.

The most valuable point of *OPPO Find X2 series* is no different from what users see everyday - the screen. Equipped with an edge-to-edge, edge-to-edge screen, 2K AMOLED technology that supports HDR10, 10 bits (1 billion colors), especially the 120Hz refresh rate makes this smartphone easy to achieve A + scores according to the evaluation. of DisplayMate and surpass even the 'giants' who have the lead in screen.

The current issue is not whether the hardware is good (or because this Find X2 is redundant), but rather the support of the software. The screen supports HDR10 for what to do when all user content is in SDR (Standard Dynamic Range) format; What is the 120Hz 'super smooth' refresh rate to do when the video is still 'flat' at 24, 30, 60fps at most?



It solves this problem with a feature called 'O1 Ultra Vision Engine,' which is an algorithm for 'upgrading' common content to the Find X2 display standard. In which 'HDR video enhancement' is used to increase the dynamic range and the density; and 'Video motion enhancement' to increase the video refresh frequency to 60 or 120fps.



First we will talk about the 'asterisks' in this feature, because it is not perfect when used in practice. The first downside is that it only works with certain applications (Youtube and Netflix are two famous applications that support it), rather than a 'one-off, ubiquitous' solution. Second, when using the frequency upgrade to 120Hz with O1 Ultra Vision, the screen resolution will be reduced to 1080p, not reaching 2K anymore.





We will try to upgrade the image to HDR first. Like a dish, `` good " HDR content must be shot with a HDR-enabled camera (good material), edited and stored in HDR format ('good' processing and display) and played on screens. The picture supports HDR (enjoy the right style). So we will have to assert one thing: SDR, no matter how much upgrade, cannot equal HDR content.

But not so that we do not see the benefits when using the upgrade feature on Find X2. In the image above, you can see that the artist and the guitar both have higher brightness and stand out against the black background. If you pay attention, you will also see the silhouette shown on the guitar clearly in the upgraded version.





Add another example with SDR (left) and HDR (right) content

In this example, we continue to see areas that are lit . brighter in the HDR upgrade version. It is difficult to describe with photos, but in fact the upgraded image also feels a bit more contrast, 'eye-catching', a little more depth.





Experiment with a bright enough scene

Moving on to a well-lit scene, the benefit we see is that the upgraded HDR version has a richer color. Areas that were completely 'burnt' can certainly not be 'saved' anymore, but areas that are dark and still have details that are clarified by O1 Ultra Vision by increasing brightness.

What about the ability to upgrade frame-rate? When activated, this feature will 'see' what is happening on the screen (usually with a frequency of 24 - 60fps) and then create new frames to help them become 60fps or 120fps. As mentioned when switching over 120fps the camera will have to reduce the resolution to 1080p instead of 2K (perhaps to reduce the amount of information that must be processed), whether or not this trade-off is up to you.

Tested to raise the frame-rate with the Avengers: Endgame trailer

Experimenting with the Avengers: Endgame trailer was shot at 24 fps and upgraded to 60 fps, we can clearly see the elements in the scene (poles, actor Paul Rudd) smoother as the camera moves through. , no more 'jerks' between frames. The ability to upgrade frames seems to work more effectively with real scenes, and with cartoons with unexpected moving elements, the results are still visible, but not as impressive.

Test results with cartoons may not be as impressive!

There is much debate over whether or not to increase the refresh rate of the film, or to keep it in line with the filmmaker's intentions. There must be some reason that all the blockbuster movies ever recorded at 24 fps, nothing more and nothing less!

I think this feature is best suited for action movies, making it easy to see what's going on the screen. For those who do not feel this is necessary, they can still turn this feature off and enjoy the ability to upgrade HDR, all is the choice!

You finished reading the article "**Learn the O1 Ultra Vision image enhancement feature on Find X2 series, turn SDR into HDR and every frame-rate to 120Hz**" edited by the [TipsMake](#) team. We hope this article has provided you with many useful tech tips and tricks. You can search for similar articles on tips and guides. Thank

you for reading and for following us regularly.
