

Learn video recording standards with smartphones

FullHD, 4K sharp or slow rotation 120 fps, what is super slow 960 fps? Please join us in this article.

Today smartphones are a familiar device for most of us, you can use them to do everything like watching movies, taking photos, shooting videos . the quality is not inferior to those of devices dedicated. When using the smartphone to film, we often hear people use a number of terms like filming FullHD, 4K sharp or slow 120 fps, super slow 960 fps. What do these terms mean? This article will explain to you the most simple and understandable, let's find out.

1. Video resolution: HD, FullHD, 4K .



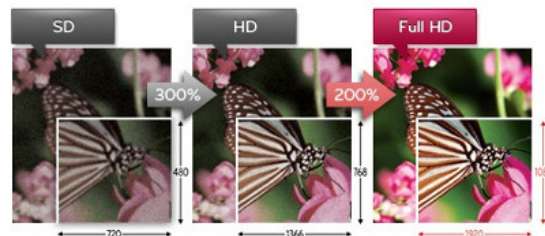
These terms are used not only on dedicated video recording devices, but also many phones today have integrated this feature on their devices. Screen resolution is an index of pixels displayed on the screen and is often called pixels. The larger these indicators, the more detailed the display will be. For example: FullHD 1080p video will have 1920x1080 pixels (pixels), similar to 720p HD is 1280x720 pixels.



The image on the screen you see is actually compounded by a lot of small pixels, so the more the number of scene points, the more detailed the picture will look. When you play back videos on the big screen, the HD standard will have a clear difference with FullHD or 4K, blurry images, broken images.

However, in order to obtain a good, sharp image, the camera's quality of feeling on the phone is an important factor, directly affecting the image later.

2. Frame rate: 30 fps, 60 fps, 960 fps .



Besides resolution, frame rate is also one of the most common factors related to smartphone video recording standards that users need most concerned about.

The frame rate of video when recording is denoted as FPS (frame per second) which is the quantity of the number of frames that appear in one second of the video. The higher the FPS, the smoother the image. For example: a smartphone camera when shooting movies at a rate of 30 FPS, this means that every 30 seconds will be captured by the camera, then when the video is played back, 30 images have been recorded. Previously, it was displayed very quickly on the screen in just 1 second, giving the human eye the image of continuous transition.



Conversely, when you watch videos with a slower frame rate of 10-15 FPS, you will experience slow, unpleasant jerky images that cause eye strain.

Remember, in the 25-30 FPS range, the standard speed is often used, the image is smooth and does not cause eye strain. High speed up to 60 FPS for best quality experience. So, not the higher the speed, the more uncertain your video is. Please select the appropriate parameters for your needs.

The ability to shoot high-speed video in addition to providing more quality videos but also creates a special and extremely interesting feature. It is slow or slow motion.



All videos recorded at 60 FPS or more can be turned into slow motion scenes. If your phone can record video at 120 FPS or 240 FPS, it will also have a way to slow down the scene for you. In other words, if you shoot a video at 120 FPS, the scenes will be slowed five times and that will be 10 times if the video is recorded at 240 FPS.

Today, some commercial smartphones integrate the fastest frame rate up to 960 fps. With this speed, ultra-slow footage gives users more interesting moments than usual.

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1. Why is the screen often black and flashing when filming?
2. 10 easy video editing applications on Android
3. Guide to making professional movies with iMovie on iPhone and iPad

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