

# What is the screen resolution of HD, Full HD, 2K, 4K, 8K? Compare the differences between them

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Screen resolution is an interesting specification for any type of screened device, such as computers, televisions, phones, etc. Everyone seems to think that the higher the resolution, the better the image quality. But did you really understand the nature of this parameter? As well as what values ??HD, Full HD, 2K, 4K or even 8K mean? Please refer to the following article to learn more about them.



## 1. What is the screen resolution?

Screen resolution is the number of pixels (pixels) displayed on the screen, expressed as the product of the number of pixels according to the width and height of the screen. For example, a screen with a width of 1280 pixels, a height of 720 pixels, the resolution is 1280 x 720 pixels. A pixel is a very small block of color and is the most basic unit that creates a digital image. Understandably, every single pixel is an extremely small colored dot on the screen.

Screen resolution is an important criterion for assessing the visibility of a screen, but it is not yet the most important. For example, when comparing a 13.3-inch laptop screen and another 14.1-inch screen, both of which have 1280 x 800 pixels, the 13.3-inch screen will show a somewhat sharper image. sharper because *its pixel density is higher*.

## 2. What are the resolutions of HD, Full HD, 2K, 4K, 8K?

**HD:** This is a resolution of 1280 x 720 pixels (also known as 720p) and 4: 3 aspect ratio, usually the resolution of small and cheap TVs.

**Full HD:** 1920 x 1080 pixel (or 1080p) resolution, 16: 9 aspect ratio.

Avoid confusion that if HD and Full HD resolutions are rated by the number of pixels in height to name, then 2K, 4K and 8K resolutions are named by the number of width pixels.

**2K:** Resolution 2560 x 1440 pixels (4 times higher than HD so often called QHD). Although larger than 1080p, according to many people, this resolution is not necessary for the phone because the human eye can hardly see the difference between 2K and 1080p on such a small device.

**4K:** Has a resolution of 3840 x 2160 pixels (Ultra HD or UHD, 4 times Full HD) or 4096 x 2160 pixels. Currently this resolution is only available on newer TVs. Cinema projectors also often have 4K resolution with 4096 pixels wide.



**8K:** The resolution is considered to be the largest at the moment, up to 7680 x 4320 pixels (4 times higher than 4K UHD), but there are not many products in the life that own this resolution.

Hopefully after this article, you have a good understanding of the nature of screen resolution as well as HD, Full HD, 2K, 4K and 8K resolutions. Wish you choose for themselves a product with a satisfactory resolution.

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