

What is Miracast Connect? On which device? Instructions on how to use Miracast

The article will introduce you to the concept of Miracast connection and on what devices. At the same time, you can also refer to the simplest usage guide to apply when you want to connect your phone screen to your TV.

Have you ever heard of the Miracast concept? Let's find out with Mobile World what the Miracast connection is, on which devices as well as the most detailed instructions on how to use it!

1. What is Miracast connection?

Miracast is a useful technology for anyone who wants to share content on one screen to another or on a projector, such as presentations, videos, apps, and photos. In other words, it wirelessly mirrors what's on one device's screen onto another so it can be viewed and accessed.

Miracast aka wireless HDMI, you don't need to use an HDMI cord to connect your phone to the TV.

Miracast is suitable for home WiFi environments where the number of users is small and the devices involved are simple. Therefore, it is possible to ensure that the connection between two devices using Miracast is smooth and uninterrupted.

Picture 1 of What is Miracast Connect? On which device? Instructions on how to use Miracast

2. The principle of operation of Miracast

Miracast works on the WiFi Direct standard, thereby establishing a direct connection between the device and the screen (peer-to-peer), essentially creating its own WiFi network. The device that will host or stream content (e.g. tablet) communicates directly with the Miracast receiver (e.g. ScreenBeam). Miracast will connect wirelessly and mirror everything from one screen to another.

To connect Miracast, the connected devices do not require the same company, just need to have Miracast certification, for example, you can connect a Samsung phone to a Sony TV, or a Dell laptop to a Panasonic projector,.

In addition, Miracast also enables touch-enabled mice, keyboards, and monitors to become wireless extensions of your PC, allowing for more natural and flexible interaction with the display.

Picture 2 of What is Miracast Connect? On which device? Instructions on how to use Miracast

3. Pros and cons of Miracast connection

Advantages of Miracast

Stream game screens, online movies from your phone to the big screen (TV, projector) with the same quality and sound.

Play downloaded or online music from your smartphone, tablet, to better speakers.

Illustrate the operation on the phone screen using a TV or projector.

Simple connection, no high equipment requirements (just equipped with Miracast connection), fast and stable transmission speed.

Disadvantages of Miracast

Currently, there are limited devices that support Miracast, not all devices have this feature.

Picture 3 of What is Miracast Connect? On which device? Instructions on how to use Miracast

4. Which devices support Miracast connection

Almost every Windows 10 laptop and computer supports Miracast. For Android phones, only lines with Android 4.2 or higher operating system are needed. As for the iPhone, there is no Miracast, but Screen Mirroring instead.

In addition, with today's smart TVs, almost all of them support Miracast connectivity.

Picture 4 of What is Miracast Connect? On which device? Instructions on how to use Miracast

5. Compare Miracast with AirPlay and Google Chromecast

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| | Miracast | AirPlay | Google Chromecast |
|--|-----------------|----------------|--------------------------|

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| Advantages | <p>Stream game screens, online movies from your phone to the big screen (TV, projector) with the same quality and sound.</p> <p>Play downloaded or online music from your smartphone, tablet, to better speakers.</p> <p>Illustrate the operation on the phone screen using a TV or projector.</p> <p>Simple connection, no equipment required (just equipped with miracast connection), fast and stable transmission speed</p> | <p>- AirPlay has the ability to stream music to multiple audio devices at the same time.</p> <p>The transmission speed is fast while the picture and sound are good by keeping the quality of the original file.</p> | <p>Almost suitable for any TV with USB slot .</p> <p>The picture quality is clear, no frame stuttering occurs.</p> <p>Compatible with all phone platforms and all computer operating systems.</p> |
| Defect | <p>Currently, there are limited devices that support Miracast, not all devices have this feature.</p> | <p>Only a small number of Apple devices or devices of a few brands are integrated with Airplay.</p> | <p>Do not allow to install apps directly, but have to depend on smartphones, tablets or PCs.</p> <p>Not all movie and music apps are compatible with Chromecast.</p> |
| Support device | <p>Laptops and computers with Windows 10 operating system; Android phones with Android 4.2 or higher operating system.</p> | <p>iPhone, iPad , iPod touch, HomePod , Apple TV, MacBook or PC.</p> | <p>All phone and computer platforms with any operating system.</p> |
| Connection method | <p>Connect using wireless HDMI (HDMI over WiFi).</p> | <p>Connect with an HDMI cable.</p> | <p>Plug it into any TV or monitor with an HDMI port .</p> |

6. How to Connect Android Phone to TV Using Miracast

To connect Android phone to TV with Miracast, you just need to prepare a device equipped with Miracast connection to do it!

Picture 5 of What is Miracast Connect? On which device? Instructions on how to use Miracast

The above article has just introduced you to information about Miracast connection. Hope this can be a useful information for you. See you in the next post!

You finished reading the article "**What is Miracast Connect? On which device? Instructions on how to use Miracast**" 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.