

What is HDMI ARC port? Functions and connection methods

What is HDMI ARC port? HDMI (ARC) is one of the connection ports commonly installed on new generation TVs today.

HDMI ARC is one of the connection ports commonly installed on new generation TVs today. However, many people still wonder **what an HDMI (ARC) port is?** What are its uses? Let's find the answer with [TipsMake](#) through the article below.

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What is HDMI ARC port?

HDMI port (ARC) is a connection port that helps output sound to speakers, amplifiers, systems, etc. through connecting an HDMI cable.

In fact, HDMI (ARC) was produced to optimize the number of wires connecting the TV and devices that support sound amplification together. From there, reduce the time difference and increase the sound quality when exported to the outside.

Picture 1 of What is HDMI ARC port? Functions and connection methods

The most common application of the HDMI ARC port in life is: You can both output sound to the speaker and receive images from the player's signal through a cable connecting the HDMI (ARC) port without need to connect to multiple cables at the same time like previous generations of TVs that do not have HDMI (ARC)

ports anymore.

What is the function of the HDMI (ARC) port?

After understanding what an **HDMI (ARC) port** is, TipsMake will provide you with some of the functions of this product as follows:

1. The most important function is to help you transmit signals quickly between audio devices and TV screens. From there, it helps you save money by not having to buy other connection cables.
2. It not only helps connect speakers to the TV, but also acts as a modern recording unit. At the same time, it helps many devices connect to your TV in the easiest way.
3. In addition, TVs and audio amplifiers when connected using the HDMI (ARC) port can still be easily controlled with the TV's remote control. This helps you reduce connection time and have a better experience when controlling the TV.

Picture 2 of What is HDMI ARC port? Functions and connection methods

Advantages and disadvantages of HDMI (ARC) port

To help you have the most general perspective on the quality of HDMI ARC cables, TipsMake will summarize the advantages and disadvantages of this device through the content below.

Criteria	Content
Advantage	<ul style="list-style-type: none">– Allows you to output sound to speakers, connect the TV to the system without using an audio cable.– Image and video quality when transmitted through the HDMI ARC port is still guaranteed in sharpness and standard quality.– The HDMI (ARC) port cannot transmit HD data or high bit rate audio such as Dolby Atmos and DTS
Defect	: ARC) will degrade the audio quality and convert the output audio into 2 separate channels. Although it's rare and depends on the TV device you own, you should also take precautions to avoid the situation where the sound transmitted via HDMI (ARC) is lower than at another connection location.

Compare HDMI (ARC) port with some other ports

Currently, the market is distributing many products similar to HDMI (ARC) ports. To avoid buying poor quality equipment and not for your intended use. We have compared the HDMI (ARC) port and some other ports through the content below.

Compare the HDMI (ARC) port with the regular HDMI port

HDMI (ARC) port is designed specifically for Smart TV lines. Therefore, the sound quality created will be extremely compatible when you connect to applications such as Netflix or FPT Media, Amazon Prime Video,, will be extremely vivid.

In addition, if you use the HDMI (ARC) port to connect to a DVD or Blu-ray player, the output sound will be transmitted directly to the TV speakers.

Using regular HDMI ports will have more limitations than HDMI (ARC) ports. Because, the regular HDMI port can only receive image and sound signals from other devices but cannot output to TV speakers like the HDMI (ARC) port.

Compare HDMI (ARC) port with Optical port

HDMI (ARC) is a device that allows the transmission of sound quality with slightly better quality than the Optical port. Even sounds in DTS HD Master Audio, Dolby TrueHD, etc. formats can still be transmitted by this device. Besides, this product also has more priority for you when used for the purpose of transmitting video signals.

As for audio output through the Optical port, the quality is almost similar to the HDMI (ARC) port. However, audio formats such as Dolby TrueHD, DTS HD Master Audio, etc. cannot be transmitted by this device.

Picture 3 of What is HDMI ARC port? Functions and connection methods

Instructions for connecting TV to speakers, amplifier, sound system via HDMI (ARC) port?

To help you have the most perfect experience when using a TV equipped with an HDMI (ARC) port. Below, HuyKhang PC will share with you instructions for connecting your TV to speakers, amplifiers and sound systems via HDMI (ARC) port.

Connection conditions

To export sound from TV to other audio devices, you need to prepare the following basic suggested elements:

1. The most important factor is that your TV must be equipped with an HDMI (ARC) port.
2. The audio devices you want to connect must contain an HDMI OUT port that supports ARC.
3. And the last element is preparing an HDMI cable.

Instructions on how to connect

To make connecting the HDMI (ARC) port to other devices easier. You should follow the steps shared by TipsMake below.

1. **Step 1:** First, you need to plug the HDMI cable into the **HDMI (ARC) port** equipped on the TV.
2. **Step 2:** Next, you plug the other end of the HDMI cord into the **HDMI OUT** port on the audio devices you want to transmit.
3. **Step 3:** Use the TV remote to adjust the **INPUT** or **SOURCE** button to select the data input as the HDMI port on the TV.

Picture 4 of What is HDMI ARC port? Functions and connection methods

Some notes for you:

1. To ensure that speakers, amplifiers and sound systems can connect to the HDMI (ARC) port, you should carefully find out whether the product information supports the HDMI (ARC) port or not before deciding to buy.
2. If you have followed the instructions correctly but sound is still not output, you should review the quality of the HDMI cable or change to a new cable type. Because, the problem of sound not being output often comes from this part.

What are frequently asked questions about HDMI ports?

While using the HDMI port, you may encounter the following problems:

Does HDMI cable length affect image quality?

The length of the HDMI cable actually does not have any effect on the quality of the displayed image. Because the cable is specially constructed, the quality of transmitted data will not be determined by length. You can choose the cable length depending on the connection distance between the two devices.

Are HDMI ports and USB ports the same?

– These are two completely different connection ports. Specifically:

+ HDMI port is the port used to connect between a source device containing an HDMI drive (such as a DVD player, phone, tablet) with an HD screen (such as a TV, projection screen,.). Through the HDMI port and cable, audio and video data are transmitted in high quality and are not altered during transmission.

+ USB port is a port used to connect computers (such as PCs, laptops) with hardware devices (such as mice, printers, keyboards,.). Through the USB port and cable, devices can use the same language without the need for software or intermediary support.

Epilogue

Above are all the suggestions about what is the HDMI (ARC) port on the TV? And instructions for connecting to TVs and amplifiers that you can refer to. Hopefully this article will bring you useful information and help you choose a product that is right for you. Thanks for reading the article and don't forget to share the article if you find it useful.

You finished reading the article "**What is HDMI ARC port? Functions and connection methods**" 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.