

# VGA and HDMI Ports



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- **Video Graphics Array (VGA)** and **High-Definition Multimedia Interface (HDMI)** are interface standards used for cables that connect devices — such as laptop computers and DVD players — to a display, like a TV, computer monitor or projector.
- VGA carries only a video signal.
- HDMI is the default cable standard for newer electronic devices, such as Blu-Ray players or LED TVs.
- HDMI can carry both digital video and audio signals, all while encrypting data with HDCP.
- The video quality attained with a VGA cable is noticeably worse when compared to that of HDMI.

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- VGA can only accommodate a single video signal and nothing else. This means that any other signal would need another cable to pass.
- HDMI is much more capable as it was developed to carry signals between an HD TV set and a set top player. It can carry a video signal, up to 8 channels of digital audio, and a CEC channel for communication between devices. It is very convenient as you would only need one cable to connect to devices instead of 3 to 8 cables.

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- When it comes to ports, VGA uses a 15-pin connector, usually marked with a blue.
- There are several versions of HDMI cables, Type A – Type E, but the most common one is HDMI A which has 19 small pins.
- The maximum possible resolution on VGA is 2048×1536, although you should expect ghosting and other visual issues at this resolution.
- HDMI, on the other hand, can support a wide range of resolutions, without the risks of signal interference or loss.
- HDMI is much stable, and it has a built-in data encryption feature, called HDCP.
- HDMI also carries over audio, and newer versions can carry over the internet too.

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## Summary:

- 1.VGA is an analog video standard while HDMI is in digital
- 2.VGA is very old while HDMI is still pretty new
- 3.VGA can only carry a video signal while HDMI can carry a lot of signals other signals along with video
- 4.VGA is usually used in computers while HDMI is used in HD tv sets and media players

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Lets think.....

1) Which one is Better to Watch Movies?

2) Which One is Better for Gaming?