

HDMI Cable Guide

Bandwidth is the Key

The HDMI connection system has evolved in many ways since it was introduced, but the cable configuration has not changed at all. However, an alternate configuration was added in V1.4 to support Ethernet and the Audio Return Channel. Other than that, the only changes that affect cables are the increased bandwidth needed for the features introduced with each new HDMI version.

Even the most basic HDMI cables will support the 18G bandwidth requirement of the latest HDMI 2.0 components over a length of one or two meters. Of course, cable bandwidth decreases quickly with length, so even two meters of low grade cable may be too long for HDMI 2.0 applications. The best HDMI cables exceed these bandwidth requirements, reducing data errors to provide superior audio and video performance.

Cable Speed Rating	Bandwidth	Resolution	3D	HDR	Deep Color	Features Provided
18 Gigabit Speed	18G	4K/60	yes	yes	yes	All HDMI 2.0 features
High Speed	10.2G	4K/30	yes	no	yes	All HDMI 1.4 features
Standard Speed	4.95G	1080p	no	no	no	All HDMI 1.2 features

HDMI 2.0 Features

4K/60
 DVD Audio
 SACD
 Deep Color
 Wider Color Gamut
 Dolby True HD
 DTS-HD Master Audio
 Auto Lip-Sync
 3D
 Ethernet
 Audio Return Channel
 Dual-View
 Multi-Stream Audio
 21:9 Aspect Ratio
 Dynamic Lip-Sync
 High Dynamic Range (HDR)

HDMI 1.4 Features

4K/30
 DVD Audio
 SACD
 Deep Color
 Wider Color Gamut
 Dolby True HD
 DTS-HD Master Audio
 Auto Lip-Sync
 3D
 Ethernet
 Audio Return Channel

HDMI 1.2 Features

1080p
 DVD Audio
 SACD

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