



## Connectivity Guide

The introduction of high definition televisions brought about a number of technological evolutions. One of the most ground-breaking technologies to come down the digital pike is HDMI. Finally, here was a cable that could transmit uncompressed digital audio and video signals digitally, and word of this convenient cable quickly spread. Throughout the years, new and improved versions have arrived from the HDMI founders including today's High Speed HDMI with Ethernet.

### What exactly does the “Speed Rating” of HDMI® cables measure?

The speed rating determines a cable's ability to transfer large amounts of data at certain pre-determined time intervals, usually measured in Gigabits per Second (Gbps).



## Speed Rates

<p>Guaranteed Standard Speed 4.95 Gbps</p>	<ul style="list-style-type: none"> <li>• HDTV Set Top Box – 1080i / 8-bit Color – 2.23 Gbps</li> <li>• Advanced Gaming Station, (xBox360/PS3/Wii), Blu-Ray 1080p /8-bit Color – <b>4.455 Gbps</b></li> </ul> 
<p>Standard Speed cables that will pass Blue-Ray's 1080p</p>	<ul style="list-style-type: none"> <li>• HDMI Ver. 1.3a – 1080p / 12-bit Deep Color – <b>6.6825 Gbps</b></li> <li>• Blu-Ray Profile 1.3 – 1080p / 14-bit Deep Color – <b>7.7963 Gbps</b></li> <li>• Blu-Ray Profile 2.0 – 1080p / 16-bit Deep Color – <b>8.91 Gbps</b></li> </ul> 
<p>Guaranteed High Speed 10.2 Gbps (Note: All OSD HDMI cables fall under this category)</p> 	<ul style="list-style-type: none"> <li>• HDMI Ver. 1.4a – 1440p+ / 16-bit Deep Color – <b>10.2 Gbps</b></li> <li>• HDMI Ver. 3D, 4K and beyond</li> </ul> 

### High Speed with Ethernet – What Does This Mean for Me?

**High Speed with Ethernet means that you have the latest, most up-to-date cable available on the market—period!**

The cable added a fifth pair of twisted cables dedicated for two-way audio communications and allows internet connection with all your system components through the HDMI® cable. This eliminates the need to connect all the components directly to a router with Cat 5 network cables. Instead, you would hard-wire only one component to the router and then let the HDMI® do all the internet connections with all other components. But! Hardware manufacturers including the flat panel TVs, Blue Ray /DVD players and game unit companies have yet to offer this feature.

## 4K and Beyond Enhances the Viewing Experience

- Same resolution as many state-of-the-art digital movie theaters
- Up to 4 times the resolution of 1080p



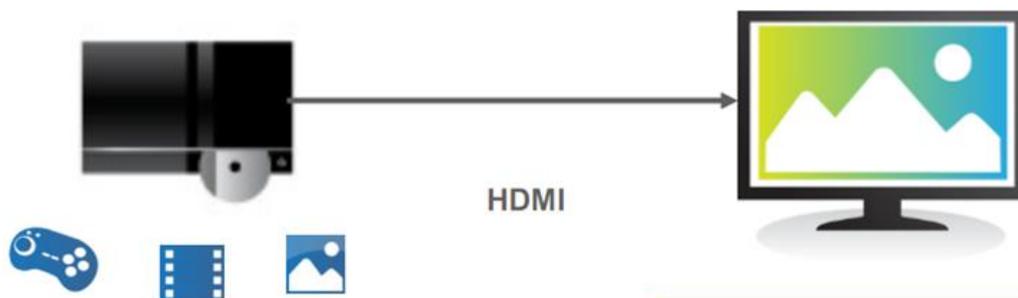
3840x2160 24Hz | 25Hz | 30Hz

4096x2160 30Hz



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- Enables real-time recognition of content types between display and source devices
- Enables the TV to optimize picture settings based on content type



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- Established critical infrastructure for implementing 3D in the home for 3D gaming, home theater and 3D broadcasts



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