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HIGH-DEFINITION MULTIMEDIA INTERFACE

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HDMI™ 1.4
HIGH-DEFINITION MULTIMEDIA INTERFACE

FEATURE GUIDE

HDMI Ethernet Channel
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FEATURE OVERVIEW

HDMI Ethernet Channel

HDMI Ethernet Channel technology consolidates video, audio, and data streams into a single HDMI cable, combining the convenience of HDMI connectivity with the power and flexibility of home entertainment networking. It incorporates a dedicated data channel into the HDMI link, enabling high-speed, bi-directional networking at up to 100 Mb/sec.

Audio Return Channel

The Audio Return Channel in HDMI 1.4 enables a TV, via a single HDMI cable, to send audio data "upstream" to an A/V receiver or surround audio controller, increasing user flexibility and eliminating the need for any separate S/PDIF audio connection.

- An Audio Return Channel-enabled TV can either send or receive audio via HDMI, upstream or downstream, depending on system set-up and user preferences.

3D

The latest version of the HDMI standard establishes critical infrastructure for implementing 3D video in the home, defining input/output protocols that will allow 3D displays and source devices to communicate through an HDMI link. It's a major milestone on the path to bringing true 3D gaming and 3D home theatre to the mass market, supporting resolutions up to 1080p in 3D.

Deep Color

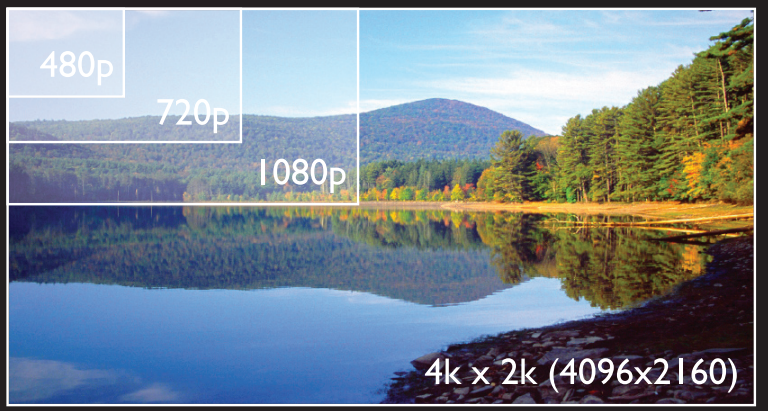
While RGB is still the dominant colour space in most video applications, other color models are gaining popularity, particularly in digital still photography. Version 1.4 of the HDMI specification adds support for three additional colour spaces (also known as color gamuts), enabling manufacturers to deliver better and more accurate colour to users when they view their digital photos on an HDTV.

x.v.Colour

4K

The HDMI 1.4 specification adds support for extremely high video resolutions that go far beyond today's 1080p systems. 4K x 2K is shorthand for 4,000 lines wide by 2,000 lines high, or roughly four times the resolution of a 1080p display. The term actually covers two formats, both supported in the HDMI 1.4 specification:

- 3840 pixels wide by 2160 pixels high
- 4096 pixels wide by 2160 pixels high



4K x 2K displays will put high-end home theater systems on a par with the state-of-the-art Digital Cinema projectors used in many commercial movie theatres. Staying true to its commitment to future-readiness, the HDMI standard can now support these systems with the extremely high bandwidth connectivity they will require.