

2.0 FAQ

Features and Compatibility

What is HDMI 2.0?

HDMI 2.0, which is backwards compatible with earlier versions of the HDMI specification, significantly increases bandwidth up to 18Gbps and adds key enhancements to support market requirements for enhancing the consumer video and audio experience.

What's new in HDMI 2.0?

HDMI 2.0 significantly increases bandwidth to 18Gbps and includes the following advanced features:

- **Resolutions up to 4K@50/60 (2160p)**, which is 4 times the clarity of 1080p/60 video resolution, for the ultimate video experience
- **Up to 32 audio channels** for a multi-dimensional immersive audio experience
- **Up to 1536kHz audio sample frequency** for the highest audio fidelity
- **Simultaneous delivery of dual video** streams to multiple users on the same screen
- **Simultaneous delivery of multi-stream audio** to multiple users (Up to 4)
- **Support for the wide angle** theatrical 21:9 video aspect ratio
- **Dynamic synchronization** of video and audio streams
- **CEC extensions** provide more expanded command and control of consumer electronics devices through a single control point

Does HDMI 2.0 support BT.2020 (rec.2020) colorimetry?

Yes. HDMI 2.0 includes support for BT.2020 Colorimetry with 10 or more bits of color depth. Video Formats defined in BT.2020 and supported by HDMI 2.0 specification:

- 2160p, 10/12 bits, 24/25/30Hz, RGB/4:2:2/4:4:4
- 2160p, 10/12 bits, 50/60Hz, 4:2:0/4:2:2

Does HDMI 2.0 replace HDMI 1.x?

No, HDMI 2.0 is built on top of HDMI 1.x and any device that wants to implement HDMI 2.0 must first implement HDMI 1.x as a baseline requirement.

Is HDMI 2.0 backwards compatible with HDMI 1.x?

Yes, all HDMI versions are fully backward compatible with all previous versions.

What are the 4K formats supported by HDMI 2.0?

	8bit	10bit	12bit	16bit
4K@24 4K@25 4K@30	RGB 4:4:4	RGB 4:4:4	RGB 4:4:4 4:2:2	RGB 4:4:4
4K@50 4K@60	RGB 4:4:4 4:2:0	4:2:0	4:2:2 4:2:0	4:2:0

BOLD texts are new with HDMI 2.0

Does HDMI 2.0 require new connectors?

No, HDMI 2.0 uses the existing connectors.

Does HDMI 2.0 require new cables?

No, HDMI 2.0 features will work with existing HDMI cables. Higher bandwidth features, such as 4K@50/60 (2160p) video formats, will require existing High Speed HDMI cables (Category 2 cables).

Can existing HDMI cables support the higher bandwidths of HDMI 2.0 Specification?

Yes, existing High Speed HDMI Cables (wire only) will support the new higher bandwidths (up to 18Gbps). HDMI 2.0 specification defined a new, more efficient signaling method, for speeds above 1.4b limits (10.2Gbps), to allow higher bandwidths (up to 18Gbps) over existing High Speed HDMI Wire Cables.

Can my existing HDMI 1.x devices be upgraded with HDMI 2.0 features?

Currently, there are no provisions for doing such an upgrade. Because of the new enhanced feature set, any such conversion would require hardware and/or firmware upgrades. If there are such conversions, it would come from the manufacturer. Please check with them directly.

Licensing HDMI 2.0

How do you license HDMI 2.0?

In order to license the HDMI 2.0 specification, you must first become an HDMI Adopter and then sign an addendum to the HDMI Adopter Agreement which provides a license to the HDMI 2.0 specification.

Can non-HDMI Adopters license only the HDMI 2.0 specification?

No. Any company seeking to develop HDMI-enabled products using the HDMI 2.0 specification must also license the HDMI 1.x specification.

If I am a current Adopter, do I have to license HDMI 2.0?

No, Adopters have the option to only license 1.x and are not required to sign the Adopter Addendum.

Do HDMI 1.x Adopters automatically get access to HDMI 2.0?

No, existing HDMI Adopters must sign the new HDMI 2.0 addendum to license and access HDMI 2.0.

Is there a new licensing agreement for HDMI 2.0?

No, however there is a new HDMI 2.0 addendum to the existing HDMI 1.x Adopter Agreement.

Will current Adopters be required to pay an additional Annual Fee if they choose to adopt the HDMI 2.0 specification?

No. There is no additional Annual Fee for HDMI Adopters who choose to license the HDMI 2.0 specification.

Will there be any new royalty and/or increase in current royalties for products that implement HDMI 2.0 features?

No. HDMI Adopters will continue to pay the same royalties on HDMI 1.x products in accordance with the existing Adopter Agreement. There is no additional royalty for implementing the HDMI 2.0 specification.

Where can I download the HDMI 2.0 specification?

HDMI 2.0 specification can be downloaded from the Adopter Extranet only by HDMI Adopters who have signed the HDMI 2.0 addendum.

Testing

What are the testing requirements for HDMI 2.0?

All HDMI 2.0 features must be compliance tested with the HDMI Compliance Test Specification (CTS) 2.0 and all HDMI 2.0 devices must also be compliant with the HDMI CTS 1.4b

What is the testing policy for HDMI 2.0 products?

An Adopter's first product in a designated product category that implements any function of the HDMI 2.0 specification needs to be submitted to an ATC for testing and pass all applicable and available HDMI compliance tests before shipment.

An Adopter's subsequent product in a designated product category that implements any additional function of the HDMI 2.0 specification should be submitted to an ATC for testing and pass all applicable and available HDMI compliance tests before shipment.

When will the HDMI 2.0 Compliance Test Specification be available?

The HDMI 2.0 Compliance Test Specification (CTS) is expected to be released before the end of 2013.

When will ATCs start to provide 2.0 testing services?

Each individual ATC will decide on when to offer HDMI 2.0 testing services. Please contact your local ATC for more information.

HDMI Forum, Inc.

What is the HDMI Forum?

HDMI Forum, Inc., is a nonprofit, mutual benefit corporation whose purpose is to foster broader industry participation in the development of future versions of the HDMI specification. Over 80 of the largest PC, CE and semiconductor companies have become Members of the HDMI Forum.

What are the qualifications to become a Member of the HDMI Forum?

The Forum is open for participation by any entity. Interested entities must sign a Participation Agreement and pay an annual Membership Fee. There is no limit to the number of Members the Forum may admit.

What is the cost to become a Member of the HDMI Forum?

Members pay an annual fee of USD \$15,000.

MORE INFORMATION

HDMI 2.0, go to www.hdmi.org

HDMI Forum, go to www.hdmiforum.org

Becoming an HDMI Adopter, go to www.hdmi.org/manufacturer/adopter_registration