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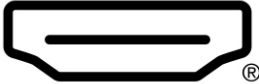
HDMI

High-Definition Multimedia Interface

HDMI

- HDMI

HDMI

HDMI
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1. HDMI 가

2. HDMI , HDMI 2.1 8K

3. HDMI 1)

4. HDMI

5. HDMI 가

6. HDMI HDCP(High-bandwidth Digital Content Protection)

HDMI

HDMI

High-Definition Multimedia Interface

HDMI (High-Definition Multimedia Interface) is a standard interface for transmitting audio and video signals in digital format. **HDMI** provides high-quality audio and video connections between various digital devices, primarily used with high-definition televisions, digital projectors, Blu-ray players, computer monitors, audio receivers, and other multimedia devices. Here is an explanation of the key features and definition of **HDMI**:

1. Digital Interface: **HDMI** utilizes digital signals rather than analog signals. This is effective in maintaining high quality and resolution while transmitting audio and video.

2. High-Definition Video: **HDMI** can transmit high-definition video signals, and the latest version, **HDMI 2.1**, supports 8K resolution and high refresh rate video.

3. Audio Transmission: **HDMI** can transmit high-quality audio and is compatible with multi-channel sound systems, commonly used in home theaters and audio systems.

4. Single Cable: **HDMI** can transmit both audio and video through a single cable, reducing cable

clutter and connection complexity.

5. Audio and Video Multimedia Transmission: [HDMI](#) can transmit not only audio and video but also additional data and multimedia content, supporting various multimedia features.
6. Digital [Copyright](#) Protection: [HDMI](#) employs HDCP (High-bandwidth Digital Content Protection) to protect the [copyright](#) of digital content and prevent illegal copying.

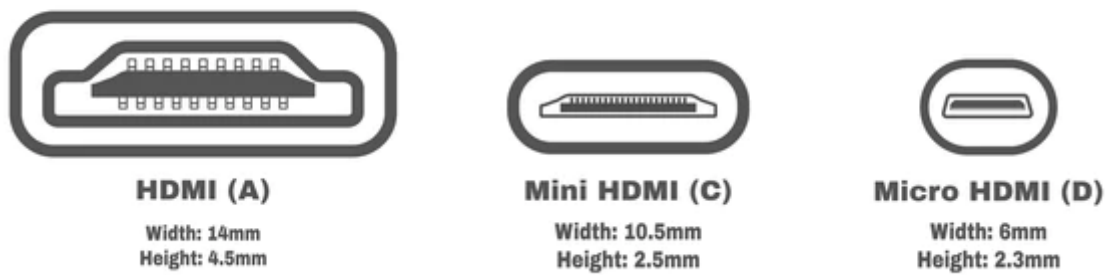
[HDMI](#) provides a standardized connection between a wide range of digital devices, including computers, televisions, smartphones, tablets, game consoles, offering users a better viewing and listening experience. [HDMI](#) cables are available in various lengths and versions, allowing users to choose according to their needs.

HDMI

HDMI	1.0	1.1	1.2	1.3	1.4	2.0
DVD Audio	✓	✓	✓	✓	✓	✓
SACD		✓	✓	✓	✓	✓
Deep Color			✓	✓	✓	✓
Color gamut expansion				✓	✓	✓
Dolby TrueHD				✓	✓	✓
DTS-HD Master Audio ™				✓	✓	✓
Auto lip-sync				✓	✓	✓
Mini connector				✓	✓	✓
3D				✓	✓	✓
4K					✓	✓
Micro					✓	✓
					✓	✓
HEC					✓	✓
ARC					✓	✓
eARC						✓
4K@50P,60P						✓
CEC Extension						✓
Dual Screen display						✓
Multi-Stream Audio						✓
21:9 Aspect ratio						✓
Dynamic auto lip-sync						✓

HDMI

HDMI TYPES



HDMI

HDMI HDMI → HDMI (Downstream)

.

HDMI 1.X

- 8
- 24-bit, 192kHz
- HDMI 1.3 Dolby TrueHD, DTS-HD Master Audio

HDMI 2.X

- 32
- 24-bit, 1532kHz(. 1532kHz/32=48kHz)

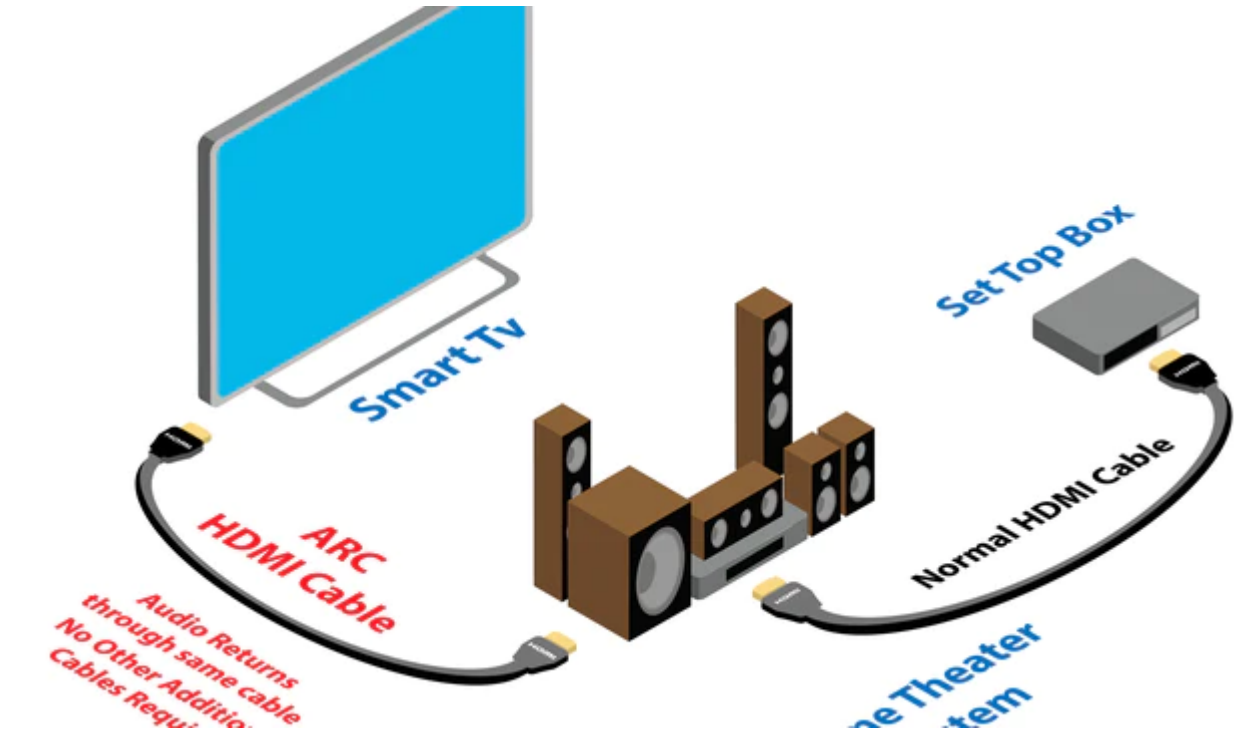
ARC

Audio **R**eturn **C**hannel

ARC HDMI → HDMI (Upstream)

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- HDMI 1.4
- 1Mbps
- 6 ()
- Dolby Digital, DTS Digital Surround (5.1)



eARC

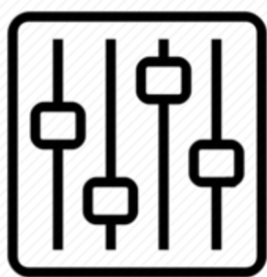
Enhanced Audio Return Channel

ARC HDMI → HDMI (Upstream)

- HDMI 2.1b
- 37Mbps
- 24-bit, 192kHz
- 32
- DTS-HD Master Audio™, DTS:X®, Dolby TrueHD®, Dolby Atmos®

1)

8 가



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