

The Difference Between HD & HDMI

A Smart-e Cheat Sheet

HD

HD (High Definition) is a generic term used to describe any video format that has a higher resolution than the usual 625 lines PAL or SECAM video signal. It is generally used today to describe any video signal that has either 720 progressively scanned (720P) or 1080 lines either interlaced (1080i) or progressively scanned (1080P). Progressive scanning redraws an image all of its lines in a frame when refreshing each image. Interlaced scanning draws only half the image (odd lines) during the first image refresh operation, and then draws the remaining half (even lines) during a second refreshing. HD TV can be connected either via an HDMI connector (which carries the audio signal) or via Component (YprPb) connector which needs additional cabling to carry the audio signal.



HDMI

HDMI (High Definition Multimedia Interface) is a compact interface for transmitting uncompressed digital data. In a single cable/connector format it can support High Definition video, up to 8 channel digital audio, Consumer Electronics Control connection and Ethernet connectivity (on HDMI V1.4). Its main benefits are that there is only one compact cable/connector for both video and audio but the cable lengths are limited to 15m due to instability of the digital signals but more usually are only 5m in length. The HDMI connector is also quite fragile and prone to breaking in certain conditions.





About Smart-e

A UK company with over 25 years' experience in the Broadcast and AV industry, Smart-e are at the forefront of visual and audio technology.

Our technical expertise and working partnership with several universities means we are able to design and develop the most comprehensive and innovative product range for AV switching and distribution solutions over CAT 5-8 cable.

Our extensive client portfolio ranges from smaller companies wanting a one-to-one presentation solution to blue chip clients and distributors worldwide. Our adaptable products offer solutions to customer requirements from high end residences, banks, educational environments and hotels to super yachts, multi-national corporations and more. We pride ourselves in being global pioneers in AV distribution.

For more information please contact us at: www.smart-e.co.uk.

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