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VIDEO CONNECTORS/RESOLUTIONS

USB C (Alt-DP)



You can't tell what this connector does just by looking at it. It could just provide power, or power + data, or power + video (up to 8K) - or all three simultaneously. Check the specs!

DisplayPort

The forerunner to the connector above. Both DP & Alt-DP mode were developed by VESA to establish just one connector for all things video, data & power. Delivers up to 16K.

HDMI



Partly developed to combat video piracy, it also began to merge PC & entertainment video into one common connector. Up to 10K; non-latching, it can also transmit ARC & CEC.

DVI

There are four different versions of the DVI connector, identifiable by the pin layout; resolutions range from 1920×1200 on single link to 3840 × 2400 on dual link (16:10 ratio).



Why so many?



Different markets have had different standards over the years; also, various manufacturers & associations have tried to establish "the" connector with no luck. Alt-DP just might be the one.

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BNC*



Shown here routing YPbPr, aka "component" video - the only analog version of HD video (up to 1080p, but most commonly 720p).

VGA



Properly referred to as a "DE-15" (not "DB" as is common), this connector is 2nd only to the RCA connector in ubiquity. It delivers RGBHV at a variety of resolutions and aspect ratios.

S-video



This mini-DIN connector placed the luma (color) & chrominance (brightness) data in the video signal on Separate conductors, delivering a sharper image at 480i.

RCA ("phono")



Created by the Radio Corporation of America to connect phonographs to radios; commonly seen on entry-level consumer gear. When yellow, indicates Composite Video (typ. 720x480).

***BNC - the Swiss Army knife of connectors**

Originally developed as an antenna cable connector by the US Navy; often used as a latching alternative to the RCA connector. Very sturdy, it is used to deliver analog & digital signals from composite to HD-SDI.

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