

# cavlo

## snapshot!

### 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 1920x1200 on single link to 3840 x 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 2<sup>nd</sup> 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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