



# List of video connectors

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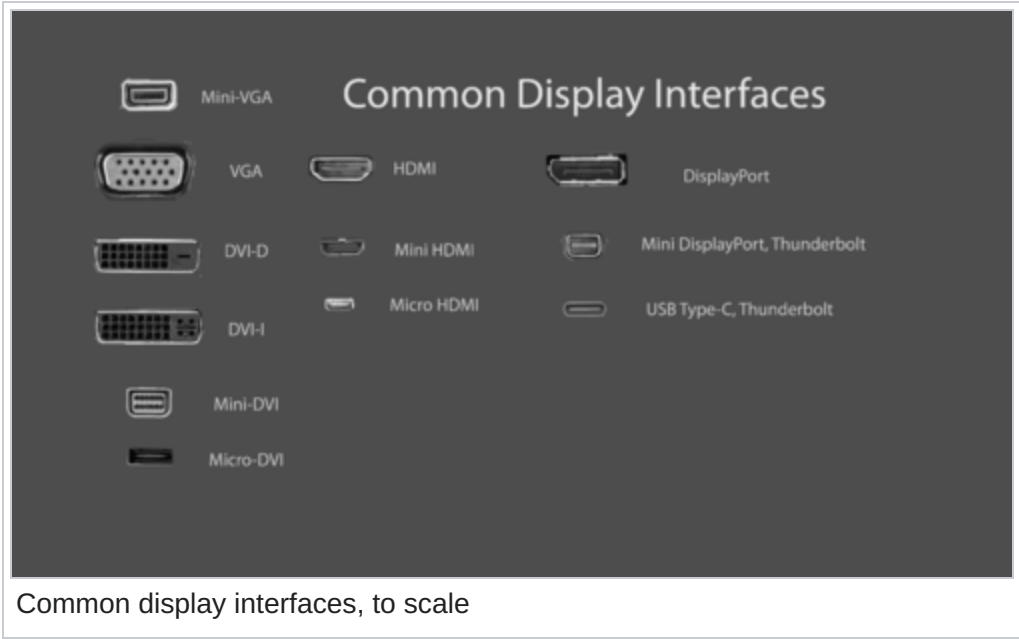
From Wikipedia, the free encyclopedia

*For broader coverage of this topic, see [Video](#).*

This is a list of physical RF and video connectors and related video signal standards.

## Physical connectors

[\[ edit \]](#)



| Image                                                                                                                                                         | Class or connector name                     | Used for                                                                                                                                                                                             | Notes                                                                                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>RF connectors</b> ( <b>radio frequency</b> signals). Generally use <b>coaxial cable</b> types such as <b>RG-6</b> and <b>RG-59</b> (except for twin-lead). |                                             |                                                                                                                                                                                                      |                                                                                                                                                                                       |
| <div><p>Belling-Lee/IEC 169-2 connector</p></div>                           | <b>TV aerial plug</b> (a.k.a. antenna plug) | <b>Television antenna</b> connection for most video devices outside North America. Used by early home computers and game consoles to connect them to TVs because of the lack of any other connector. | Generally not used in North America.                                                                                                                                                  |
| <div><p>BNC</p></div>                                                       | <b>BNC</b>                                  | Alternative to RCA for professional video electronics.<br><br>Protocols: <ul style="list-style-type: none"><li><b>Serial digital interface</b> (SDI) and HD-SDI.</li></ul>                           | 75 Ω for video signal (SDI and <b>CoaXPress</b> ) on, for example, <b>RG59</b> and <b>RG6</b> .<br>50 Ω for data link, like <b>Ethernet</b> on <b>RG58</b> .<br>93 Ω on <b>RG62</b> . |

- [CoaXPress](#)



50  $\Omega$  (white/bottom row)  
and 75  $\Omega$  C connectors  
(red/top row)

[C connector](#)  
(*Concelman*  
connector)



General Radio 874  
connectors

[GR connector](#)  
(*General*  
*Radio*  
connector)

Mostly seen on the company's test equipment.

Uniquely "hermaphrodite" connector, i.e. no male/female pairing. cf. [Anderson connector](#)



[F connector](#)

Used for most North American TV antenna connections, as well as [satellite](#) and [cable](#) systems worldwide. Also common in North America for early home computers and game consoles, older VCRs, [RF modulators](#), and even [CECBs](#) due to lack of other connectors.

Once not used outside North America for TV antennas (except for satellite reception), but gaining acceptance elsewhere with advent of digital TV.



[N connector](#)  
(*Neill*  
connector)

Mostly seen on professional quality VHF and UHF cables and equipment.

Generally 50  $\Omega$  but has been manufactured as 75  $\Omega$ ; difference being thinner centre connectors; not reliably interconnected.



TNC connector (left),  
compared with BNC  
(right)

[Threaded](#)  
[Neill-](#)  
[Concelman](#)  
[connector](#)  
(TNC)

|                                                                                  |                                              |                                                                                                                                                                                                     |                                                                                                              |
|----------------------------------------------------------------------------------|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
|  | <b>Twin-lead</b>                             | Used for older TV antenna installations in the US and various other countries worldwide. Current use generally limited to <a href="#">baluns</a> to adapt 300 Ω twin-lead to/from 75 Ω F connector. | Replaced by F connector in North America and Belling-Lee Connector in other countries outside North America. |
|  | <b>UHF connector</b><br>(e.g. PL-259/SO-239) | Despite its name, now most commonly seen on higher-power HF radio equipment, e.g. SSB transceivers. A popular choice for amateur radio enthusiasts.                                                 | 50 Ω                                                                                                         |

## D-subminiature family [[edit](#)]

| Image                                                                              | Class or connector name                                    | Used for                                                                                                                                                                                                                                                                                                                                                                                 | Notes                                                                                              |
|------------------------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
|   | <b>CGA, MDA, EGA connector</b><br>( <a href="#">DE-9</a> ) | The historical connector used by MDA, EGA and CGA graphic cards is a female nine-pin D-subminiature ( <a href="#">DE-9</a> ). The signal standard and pinout are backward-compatible with CGA, allowing EGA monitors to be used on CGA cards and vice versa.                                                                                                                             | Early VGA cards also used this connector.                                                          |
|  | <b>VGA connector</b><br>( <a href="#">DE-15</a> )          | Became a nearly ubiquitous analog computer display connector after first being introduced with <a href="#">IBM</a> x86 machines. Older VGA connectors were <a href="#">DE-9</a> (9-pin). The modern <a href="#">DE-15</a> connector can carry <a href="#">Display Data Channel</a> to allow the monitor to communicate with the graphics card, and optionally vice versa. <sup>[1]</sup> | Being replaced by DVI from 1999 onward.                                                            |
|  | <b>DB13W3</b>                                              | Analog computer video, color and monochrome. <a href="#">Sun Microsystems</a> , <a href="#">Silicon Graphics</a> , <a href="#">IBM RISC</a> , <a href="#">Intergraph</a> and some <a href="#">Apple Computer computer workstations</a> .                                                                                                                                                 | Obsolete; replaced by VGA and DVI. Same connector was used by <a href="#">3Com</a> for a redundant |

DVI-related [\[ edit \]](#)

| Image                                                                                                                                                                                                                                   | Class or connector name                                                                                                                                      | Used for                                                                                                             | Notes                                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
|  <p>Single-link DVI-D male plug.</p>  <p>Dual-link DVI-D male plug.</p> | <p><a href="#">Digital Visual Interface</a> (DVI). Five variants are: DVI-I single link, DVI-I dual link, DVI-D single link, DVI-D dual link, and DVI-A.</p> |                                                                                                                      |                                                |
|  <p>Male Mini-DVI plug on top of a 12-inch PowerBook G4; female port is second from left.</p>                                                          | <p><a href="#">Mini-DVI</a></p>                                                                                                                              | <p>VGA, <a href="#">DVI</a>, <a href="#">television</a>. <a href="#">Apple Computer</a> alternative to Mini-VGA.</p> | <p>Often now replaced by Mini DisplayPort.</p> |
|  <p>Female Micro-DVI port (rightmost) on <a href="#">MacBook Air</a></p>                                                                              | <p><a href="#">Micro-DVI</a></p>                                                                                                                             | <p><a href="#">DVI</a>-D dual link</p>                                                                               | <p>Replaced with Mini DisplayPort.</p>         |
|                                                                                                                                                       | <p><a href="#">DMS-59</a></p>                                                                                                                                | <p>twin <a href="#">DVI</a> (for two monitors via an adapter cable)</p>                                              |                                                |
|                                                                                                                                                       | <p><a href="#">Apple Display Connector</a></p>                                                                                                               | <p>Combines DVI, USB, and power.</p>                                                                                 |                                                |



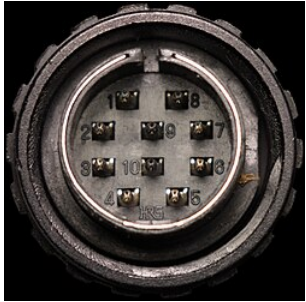
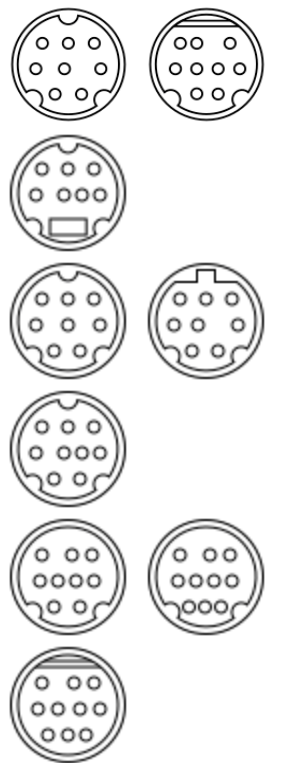
HDMI connector plugs (male):  
Type D (Micro), Type C (Mini),  
and Type A.

[High-Definition Multimedia Interface](#) (HDMI)

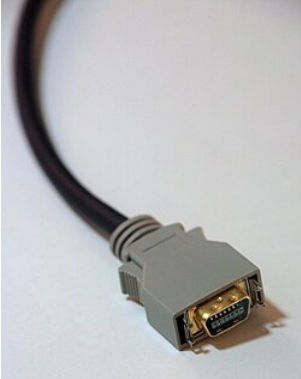
[High definition](#)  
digital video  
devices ([HDMI](#)  
protocol)

Electrically compatible  
with DVI-D and DVI-I,  
but not DVI-A, using a  
simple adapter.

## DIN/[Mini-DIN](#) [\[ edit \]](#)

| Image                                                                              | Class or connector name                         | Used for                                                                   | Notes |
|------------------------------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------------------|-------|
|    | <a href="#">DIN-style 10-pin</a>                | <a href="#">CCJ connector</a>                                              |       |
|   | <a href="#">Mini-DIN 4-pin</a>                  | <a href="#">S-Video</a> (separate video, split video, super-video, or Y/C) |       |
|  | Various <a href="#">Mini-DIN</a> configurations | Various systems and protocols - see <a href="#">Mini-DIN</a> for details   |       |

## Others [\[ edit \]](#)

| Image                                                                                                                                                                                         | Class or connector name       | Used for                                                                                                                                                                                                                                                                                                                                                                                                            | Notes                                                                                                                                                                                                                                                                                                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>Three RCA connectors - yellow for <a href="#">composite video</a>, and white and red for stereo audio</p> | <a href="#">RCA connector</a> | Widely used in <a href="#">consumer electronics</a> for audio and video.                                                                                                                                                                                                                                                                                                                                            | A single connector must be used for each signal.                                                                                                                                                                                                                                                                     |
|                                                                                                               | <a href="#">SCART</a>         | <a href="#">Consumer electronics</a> , mostly in Europe. Carries analog <a href="#">stereo</a> sound, along with <a href="#">composite video</a> and/or <a href="#">RGB</a> video. Some devices also support <a href="#">S-Video</a> , which shares the same pins as composite video and RGB. <a href="#">YP<sub>B</sub>P<sub>R</sub></a> is also sometimes supported as a non-standard extension via the RGB pins. |                                                                                                                                                                                                                                                                                                                      |
|                                                                                                             | <a href="#">D-Terminal</a>    | Popular in <a href="#">Japan</a> for analog <a href="#">high definition video</a> . Available resolutions are specified as D1 through D5.                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                      |
|                                                                                                             | <a href="#">PDMI</a>          | <ul style="list-style-type: none"> <li><a href="#">Advent Vega</a></li> <li><a href="#">Dell Streak</a></li> <li><a href="#">Boeing Black</a></li> </ul>                                                                                                                                                                                                                                                            | 30 pin receptacle including the following electrical interfaces: 2-lane <a href="#">DisplayPort</a> v1.1a, <a href="#">USB 3.0</a> , <a href="#">USB On-The-Go</a> , Analog stereo <a href="#">line-out</a> , <a href="#">HDMI CEC</a> for remote control, high output power line from both host and portable device |



Male Mini-VGA plug on top of an Apple laptop, female port is second from right.

Mini-VGA  
(used for laptops)

Used for laptops, especially from [Apple Computer](#) and some from [Sony](#).



AV Multi (gold-plated male plug)

AV Multi

Sony proprietary. Combines [composite video](#), [S-Video](#), [RGB/YPbPr](#) (both use same pins) and [stereophonic sound](#) (two analog channels).

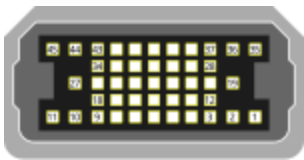
Used for all analog audio and video out on for the [PlayStation](#), [PlayStation 2](#) and [PlayStation 3](#) video game consoles. (A few early original PlayStation models featured RCA outs for composite video and stereo analog audio in addition to the AV Multi connector.)



35-pin  
MicroCross  
Molex  
connector

[VESA Enhanced Video Connector](#) and [VESA Plug and Display](#) (a.k.a. M1-DA) both used this connector with slightly different pin assignments. These schemes combined VGA or digital video, audio, FireWire, and USB signals into a single connector.

Deprecated. Made obsolete by DFP and later DVI.



HDI-45

Apple proprietary. Combines Analog VGA out, stereo analog audio out, analog microphone in, S-video capture in, [Apple desktop bus](#) interface.

Proprietary connector used on Apple [Macintosh Centris](#) computers, and the [Apple AudioVision 14 Display](#). An attempt by Apple to deal with cable clutter, by combining five separate cables from computer to monitor.

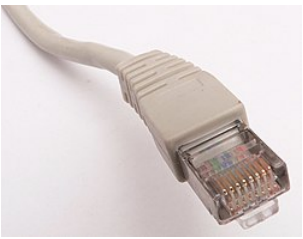


Female port (20-pin)

Digital Flat  
Panel (DFP)

Used with the [PanelLink](#) digital video protocol.

Deprecated. Made obsolete by DVI.

|                                                                                                                      |                                                                   |                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                         |
|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| 3D model of a UDI connector                                                                                          | <a href="#">Unified Display Interface</a>                         |                                                                                                                                                                                                                                                                                                                                                                                             | Proposed to replace both DVI and HDMI.<br>Deprecated by <a href="#">Intel</a> in favor of <a href="#">DisplayPort</a> . |
|  <p>3.5 mm TRRS connector (male)</p> | 3.5 mm ( $\frac{1}{8}$ in) TRRS and <a href="#">TRS connector</a> | Analog camcorders commonly use a 3.5 mm four-contact <a href="#">TRRS connector</a> to carry composite video and stereo audio.                                                                                                                                                                                                                                                              | Jack appears identical to more common three-contact stereo audio-only ( <a href="#">Walkman</a> ) 3.5 mm TRS connector. |
|                                      | <a href="#">DisplayPort</a>                                       | DisplayPort (DP) was designed to replace VGA, DVI, and FPD-Link and standardized by VESA. <sup>[2]</sup> It is primarily used to connect a video source to a display device such as a computer monitor. It can also carry audio, USB, and other forms of data. DisplayPort is backward compatible with other interfaces such as HDMI and DVI through the use of active or passive adapters. |                                                                                                                         |
|  <p>Male Mini DisplayPort plug</p> | <a href="#">Mini DisplayPort</a>                                  | Proposed alternative to HDMI, used with computer displays: ( <a href="#">VGA</a> , <a href="#">DVI</a> ) <a href="#">Apple Inc.</a> 's successor to their own <a href="#">Mini-DVI</a> .                                                                                                                                                                                                    | The same connector is used for <a href="#">Intel's Thunderbolt</a> connector, developed in cooperation with Apple.      |
|                                    | <a href="#">HDBaseT (8P8C modular connector)</a>                  | Used for transmission of uncompressed high-definition video, audio, <a href="#">Ethernet</a> , high-power over cable and various controls, via a 100 m Cat5e/Cat6 cable with 8P8C modular connectors of the type commonly used for telephone and Ethernet LAN connections.                                                                                                                  |                                                                                                                         |

| Signal standard name                                  | Introduction year   | Connector                                                                                                                                                                         | Type   | Max. resolution<br>(X-px × Y-px (i) @ Z-Hz)                                            | Used for                                                                                                                                                                                                                                                                                                                                                  | Notes <span>[hide]</span>                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Composite video                                       | 1956 <sup>[3]</sup> | 1 <a href="#">RCA</a> , <a href="#">BNC</a> , <a href="#">TV Aerial Plug</a> , <a href="#">Mini-VGA</a> , <a href="#">DIN 5-pin</a> , <sup>[4]</sup> <a href="#">SCART 21-pin</a> | Analog | <a href="#">576 lines</a> tv compatible<br><br><a href="#">625 lines</a> tv compatible | <a href="#">Consumer electronics</a> , including <a href="#">VCR</a> and <a href="#">LaserDisc</a> , 1970–1980s<br><a href="#">home computers</a> like the <a href="#">VIC-20</a> , 1980s–1990s<br><a href="#">video game consoles</a> , some <a href="#">laptops</a> , some <a href="#">single-board computers</a> like the <a href="#">Raspberry Pi</a> | Used with <a href="#">PAL</a> , <a href="#">NTSC</a> or <a href="#">SECAM</a> color.                                                                                                                                                                                                                                                      |
| <a href="#">RGBS</a>                                  | 1977                | <a href="#">SCART 21-pin</a> (a.k.a. <i>Peritel</i> ), <a href="#">JP-21</a>                                                                                                      |        |                                                                                        | <a href="#">Consumer electronics</a> , Early home computers such as <a href="#">Commodore Amiga</a> , <a href="#">Acorn Archimedes</a> and various <a href="#">gaming consoles</a> such as the <a href="#">Mega Drive</a> and <a href="#">Super NES</a>                                                                                                   | <a href="#">SCART</a> is a <a href="#">European</a> "unified" A/V interface for bi-directional stereo audio, <a href="#">composite video</a> and <a href="#">s-video</a> , and unidirectional <a href="#">RGBS</a> and data. <a href="#">YP<sub>B</sub>P<sub>R</sub></a> is also available in some non-standard set-ups via the RGB pins. |
| <a href="#">S-Video</a> (a.k.a. separate video, split | 1979                | 1 <a href="#">Mini-DIN 4-pin</a> , 1 <a href="#">Mini-DIN 7-pin</a> , 1 <a href="#">Mini-VGA</a> , 2                                                                              |        |                                                                                        | <a href="#">S-VHS</a> , some <a href="#">laptop</a> computers, analog                                                                                                                                                                                                                                                                                     | The 4-pin mini-DIN that is most common in consumer                                                                                                                                                                                                                                                                                        |

|                              |      |                                                               |               |                                 |                                                                                                       |                                                                                                                                                                                                                 |
|------------------------------|------|---------------------------------------------------------------|---------------|---------------------------------|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| video, super-video, and Y/C) |      | BNC, 2 RCA connectors, 8-pin DIN, <sup>[4]</sup> SCART 21-pin |               |                                 | broadcast video, 1980-1990s home computers including the Commodore 64, C128 and Atari 8-bit computers | products today debuted in JVC's 1987 S-VHS. The 7-pin mini-DIN is commonly used on laptops. Used with PAL, NTSC or SECAM color. Where two connectors are used, they are labeled <i>Chroma</i> and <i>Luma</i> . |
| MDA                          | 1981 | DE-9                                                          | Digital       | 720 × 350 @ 50, Text only       | IBM PC, PC/XT, PC/AT and compatibles                                                                  |                                                                                                                                                                                                                 |
| RGBI (CGA)                   |      | DE-9                                                          |               | 640 × 200 @ 60                  |                                                                                                       |                                                                                                                                                                                                                 |
| HGC                          | 1982 | DE-9 <sup>[5]</sup>                                           |               | 720 × 348 @ 50                  |                                                                                                       |                                                                                                                                                                                                                 |
| EGA                          | 1984 | DE-9                                                          |               | 640 × 350 @ 60                  |                                                                                                       |                                                                                                                                                                                                                 |
| Amiga video                  | 1985 | DB23                                                          | Both, GenLock | 1280 × 400/512 @ 30/25          | Commodore Amiga                                                                                       | Similar to SCART, but also includes a digital RGBI signal, Genlock clock, composite sync and +12/+5VDC power <sup>[6]</sup>                                                                                     |
| RGBHV                        | 1987 | VGA connector (DE-15/HD-15), DE-9,                            | Analog        | 2048 × 1536 @ 85 <sup>[7]</sup> | The VGA connector was Introduced with IBM x86                                                         | Successor analog protocols include SVGA,                                                                                                                                                                        |

|                                                                      |       |                                                                                                                                 |                              |                               |                                                                                                                                                                                                                          |                                                                                                                                                                                                                    |
|----------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                      |       | separate <a href="#">BNC connectors</a> , <a href="#">Mini-VGA</a> , <a href="#">DVI/Mini-DVI</a> / <a href="#">Micro-DVI</a> . |                              |                               | machines, but became a universal analog display interface. <a href="#">Display Data Channel</a> was later added to allow monitors to identify themselves to graphic cards, and graphic cards to modify monitor settings. | <a href="#">XGA</a> , etc. DVI is a more modern digital alternative. Where BNC is used, available as 3 connectors with <i>Sync on Green</i> , or 5 connector Red / Green / Blue / Horizontal Sync / Vertical sync. |
|                                                                      |       | <a href="#">Mac-II/Quadra DA15F</a>                                                                                             |                              | $1152 \times 870 @ 75^{[8]}$  | <a href="#">Macintosh</a>                                                                                                                                                                                                | Mac-DA15F and <a href="#">Sun-13W3</a> were similar in capability to VGA. Some Sun machines used 4 or 5 <a href="#">BNC</a>                                                                                        |
|                                                                      | 1990  | <a href="#">13W3 DB13W3</a>                                                                                                     |                              | $1152 \times 900 @ 76$        | Workstations. <a href="#">Sun</a> , SGI et al.                                                                                                                                                                           | connectors to transfer video signal.                                                                                                                                                                               |
| <a href="#">Gigabit Video Interface (GVIF)</a>                       | 1996  |                                                                                                                                 | Digital                      |                               | Automotive                                                                                                                                                                                                               | Sony proprietary                                                                                                                                                                                                   |
| <a href="#">OpenLDI</a>                                              | 1998  | <a href="#">MDR36</a>                                                                                                           | <a href="#">LVDS</a> Digital |                               |                                                                                                                                                                                                                          |                                                                                                                                                                                                                    |
| <a href="#">YP<sub>B</sub>P<sub>R</sub></a> (a.k.a. component video) | 1990s | 3 <a href="#">RCA</a> or <a href="#">BNC</a> connectors, <a href="#">Apple-AAUI</a> , <a href="#">D-Terminal</a> , SCART 21-pin | Analog                       | $1920 \times 1080 @ 60^{[9]}$ | <a href="#">Consumer electronics</a>                                                                                                                                                                                     | Also referred to as <a href="#">Component video</a> and <a href="#">YUV</a> D-Terminal uses <a href="#">voltage</a>                                                                                                |

|                                             |      |                               |         |                                                                                                                |                                                                                                              |                                                                                                                                              |
|---------------------------------------------|------|-------------------------------|---------|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
|                                             |      |                               |         |                                                                                                                |                                                                                                              | levels to signal resolution.                                                                                                                 |
| Digital Visual Interface (DVI)              | 1999 | DVI, Mini-DVI, Micro-DVI      | Both    | 2560 × 1600 @ 60 3840 × 2400 @ 33                                                                              | Video cards                                                                                                  | Almost a ubiquitous computer display link. Uncompressed video only. High-bandwidth Digital Content Protection (HDCP) encryption is optional. |
|                                             | 2000 | Apple Display Connector (ADC) |         | 2560 × 1600 @ 60                                                                                               | Apple Inc. Macintoshes and monitors                                                                          | Proprietary connector designed to combine DVI-I, USB, and monitor power                                                                      |
| Serial digital interface (SDI)              | 2003 | BNC                           | Digital | From 143 Mbit/s to 12 Gbit/s, depending on variant. 480i, 576i, 480p, 576p, 720p, 1080i, 1080p, UHDTV1, UHDTV2 | Broadcast video. Variants include SD-SDI, HD-SDI, Dual Link HD-SDI, 3G-SDI, 6G-SDI, 12G-SDI. <sup>[10]</sup> |                                                                                                                                              |
| High-Definition Multimedia Interface (HDMI) | 2003 | 19 pin HDMI Type A/C          |         | 10240 x 4320 @ 120 (version 2.1) <sup>[11]</sup>                                                               | Many A/V systems and video cards (including motherboards with IGP)                                           | High-bandwidth Digital Content Protection (HDCP) encryption is mandatory.                                                                    |

|                                   |      |                                                             |                 |                                                                                    |                                                                                                                                                                                                                                                  |                                                                                                                                                                           |
|-----------------------------------|------|-------------------------------------------------------------|-----------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DisplayPort                       | 2007 | 20-pin (external)<br>32-pin (internal)                      | LVDS<br>Digital | 10240 × 4320 @ 60<br>15360 × 8640 @ 60 (version 2.0)                               | Apple Inc.<br><a href="#">Lenovo</a> , <a href="#">HP</a> , and <a href="#">Dell</a> systems and monitors<br>ATI <a href="#">RV670</a> based graphics cards and NVIDIA <a href="#">G92</a> graphics cards (both as OEM optional implementations) | <a href="#">DisplayPort</a> introduced the 128-bit <a href="#">AES</a> to replace <a href="#">HDCP</a> . DisplayPort version 1.1 added support for <a href="#">HDCP</a> . |
| DiiVA                             | 2008 | 13-pin                                                      | Digital         | 2560 × 1600 @ 75<br>4096 × 2160 @ 24                                               | A/V systems                                                                                                                                                                                                                                      | <a href="#">High-bandwidth Digital Content Protection</a> (HDCP).                                                                                                         |
| HDBaseT                           | 2010 | <a href="#">8P8C</a>                                        |                 | 4096 × 2160 @ 24                                                                   | A/V systems, data at 10.2 Gbit/s, power up to 100 watts                                                                                                                                                                                          |                                                                                                                                                                           |
| CoaXPress                         |      | <a href="#">BNC connector</a> , <a href="#">DIN 1.0/2.3</a> |                 |                                                                                    | <a href="#">Machine vision</a> and industrial cameras                                                                                                                                                                                            | Supports 20.83 Mbit/s uplink channel and power over the same <a href="#">coaxial cable</a>                                                                                |
| Mobile High-Definition Link (MHL) |      | 5 pin                                                       |                 | 1920 × 1080 @ 60<br>3840 × 2160 @ 30 (version 3.0)<br>7680 × 4320 @ 120 (superMHL) | Connecting mobile devices to TVs                                                                                                                                                                                                                 | Supports <a href="#">High-bandwidth Digital Content Protection</a> (HDCP)                                                                                                 |

See also  [ [edit](#) ]

- [Computer display standard](#)

References  [ [edit](#) ]

- 1. ^ [VGA pinout and signals @ pinouts.ru](#)
- 2. ^ ["DisplayPort Technical Overview" \(PDF\)](#). VESA.org. 10 January 2011. Retrieved 23 January 2012
- 3. ^ ["What is CVBS video format"](#) . *Google Groups*. *Archived* from the original on February 20, 2022. Retrieved February 19, 2022.
- 4. ^ [a b settorezero.com - Cavo di collegamento video Commodore 64 / S-Video / Scart](#) , 2008-01-29
- 5. ^ ["The PC video acronyms"](#) . 070820 philipstorr.id.au
- 6. ^ ["Amiga video pinout"](#) . pinouts.ru
- 7. ^ 2560 × 1600 @ 60 Hz in theory, although few existing WQXGA device offers analog inputs (certain Barco projectors do)
- 8. ^ Capable of higher on later Macintosh models if used with the right equipment, i.e. a DA15F to VGA converter coupled with a sufficiently capable analog display
- 9. ^ Although YP<sub>B</sub>P<sub>R</sub> connections are theoretically capable of higher resolutions, resolutions above 1080p (1920 × 1080 @ 60p) are uncommon. Additionally, many devices limit YP<sub>B</sub>P<sub>R</sub> connections to 1080i (1920 × 1080 @ 60i) due to lack of encryption, allowing higher resolutions only via encrypted digital connections.
- 10. ^ ["Think 12G-SDI over Coax Isn't Possible? Think Again!"](#) . *www.belden.com*. Archived from [the original](#) on December 29, 2016. Retrieved June 6, 2022.
- 11. ^ ["HDMI"](#) . *www.hdmi.org*. Retrieved December 21, 2017.

External links [\[ edit \]](#)

- [Monitor Ports](#) Pinouts and other technical information; lacks more recent interfaces such as HDMI
- [PC Graphics standard overview](#) Simple table of PC video standards thru XGA with DB9 pinouts
- [Standard and device-specific video interfaces pinouts](#) Numerous standards described and categorized, including such recent ones as DVI and HDMI
- [List of computer video standards and connectors pinouts](#) Wiki format (including community updates and free redistribution); broad coverage including HDMI

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| <div>V • T • E</div> | <div>Audio and video connectors</div>                | <div><a href="#">[show]</a></div> |
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