

The AWP1 A-V Wallplate provides a convenient, attractive and professional way to connect audio, video, data and VGA to other equipment in Home Theatre and Corporate installations.

VGA In The built-in high resolution graphics splitter is similar to our very popular VGS2. Just plug your laptop or PC in and enjoy crisp pictures on your projector / LCD / plasma panel / large-screen monitor / etc.

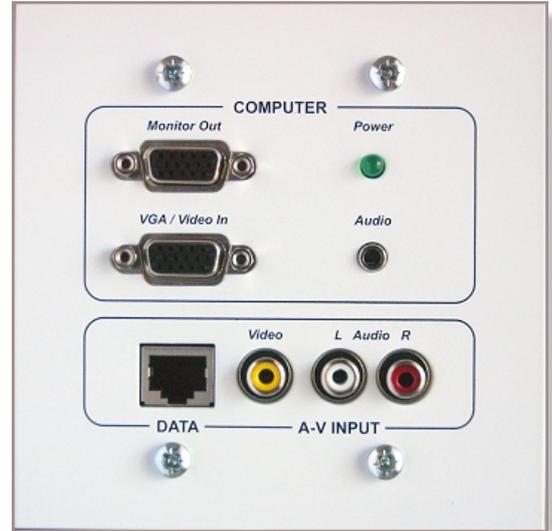


and OUT The main output is located inside the wall and is a perfect match for our HQ cables. If you prefer to run separate 75 ohm BNC cables for the longer distances, just order the BNC output (Option /b).

Video In A composite video connector (yellow RCA/Phono) connects through to the multi-pin connector located on the rear panel of the electronics module.



or S-Video The AWP1 can be fitted with a mini 4-pin DIN in place of the composite video connector. This also connects through to the multi-pin connector on the rear panel of the electronics module. (Option /s)



Data I/O All 8 pins of the RJ45 on the front panel are connected 1:1 to the identical connector on the rear panel. The RJ45 data i/o point can be used as a convenient network connection point or with various accessories such as AV baluns to connect to other AV equipment using CAT5/CAT5e cabling.

Audio In There are two separate audio inputs... a 3.5mm stereo socket for PC audio and a pair of RCA/Phono sockets for a DVD / VCR / etc. Both sets of inputs are connected to separate terminals on the rear-panel multi-pin connector.

Enhanced performance The AWP1 now has much greater bandwidth for the crispest pictures you'll see. Long cables? No problem! Internal adjustments allow compensation for up to 100 metres of quality cable. All options are easily field-changeable without soldering as all modules simply plug in!

Control The AWP1 has a blanking feature so the VGA picture can be turned off without causing the display device to show menus or a blue screen, etc. Internal links enable this feature and also allow the blanking to be controlled from the 3.5mm stereo jack or the rear panel terminal block. Monitor o/p not affected.

Connection The D.C. power and all video and audio connections are located on a single plug-in screw-terminal connector. The boosted VGA output is on a standard high-density 15 pin socket ready to plug into, or 5 x BNCs for RGBH&V if you order the /b option.



Safe The AWP1 is powered by a 12V dc plug-pack and consumes less than 1.2W. It may be left on continuously without fear of overheating or it may be powered on and off with the other A-V equipment in the installation. It may also be powered by other equipment (requires +12V @ 100mA).

Installation Easy to follow instructions are provided, but we do recommend that installation is performed by a suitably licensed person familiar with A-V and electrical wiring. The AWP1 has been designed to use Australian-standard electrical mounting brackets (not supplied).

SPECIFICATIONS

VGA:

R, G & B video I/P & O/P Z: 75 Ohms
 Frequency Response: DC - 250MHz
 DC Offset: $\pm 50\text{mV}$ Loaded
 Connectors: 3 x D15HD female for /d option (default)
 or 2 x D15HD female + 5 x BNC female for /b option.

Video:

Passive connection from front wall-plate to multi-pin connector on rear.
 Composite video: Yellow RCA/Phono x 1 - default
 S-Video: Mini 4-pin DIN socket x 1 (/s option)
 Note: Only one of the above video connectors can be fitted.

Audio:

Direct connections from front panel connectors to multi-pin connector on rear.
 PC Audio: 3.5mm stereo socket x 1
 DVD/VCR Audio: Red & White RCA/Phono, 1 each

Power:

Power Requirements: 12V dc @ approx. 100mA
 DC input is reverse-polarity protected

Dimensions & Weight:

Dress plate - 115 x 115 x 2.5mm
 Electronics module - 95 x 89 x 65 (HxWxD)
 Packed weight 1250g

In the box:

AWP1 electronics module
 Powder-coated & screen-printed dress plate
 Australian-approved 12Vdc power supply
 Plug-in 12-pin Phoenix screw-terminal block
 1.2 Metre VGA input cable (HQ1K2)
 Instruction sheet
 Mounting template

Ordering options:

S-Video input - /s
 BNC output - /b
 e.g. AWP1/s/b would have both options. Note that the cost is the same for any version specified at time of ordering.
 e & o e.

The Quest AV AWP1 is the convenient, attractive and professional way to connect audio, video, data and VGA in all sorts of permanent installations. It has been designed for easy installation using standard electrical hardware.



Fig.1 AWP1 front view
 (Standard composite video input shown)

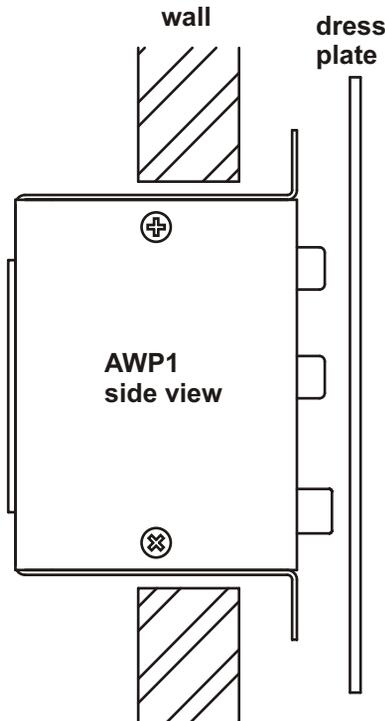


Fig.2 Wall mounting

Installation 1. Before starting, turn off all the a-v equipment to be connected to the AWP1 and disconnect it from the mains supply. This is an electrical safety measure which also offers protection from damage that can be caused by mains leakage.

2. For best results use the provided mounting template to prepare the mounting position for the AWP1.

3. A 12 pin screw-terminal plug is provided for the power, audio and video connections at the rear of the AWP1. The pin-out is clearly printed next to the 12 pin socket. Use low capacitance shielded audio cable for the audio connections, 75 ohm video co-ax such as RG-59 for composite video or dual 75 ohm video co-ax such as our CVS8 for S-Video and low loss VGA cable for the boosted VGA output.

4. A 240Vac to 12Vdc/500mA switchmode power adaptor is provided with the AWP1. The plain black wire is -ve and the one with light grey markings is +ve. The AWP1 is protected against reverse polarity, so if it doesn't power up when the system is turned on, no damage has been done, just reverse the d.c. connections. The adaptor can be located near the a-v gear, monitor, projector, etc. The d.c. cable will need to be extended and we suggest using 2 x 23/0.2mm "figure 8" speaker cable to minimise voltage drop.

5. When all wiring has been run, the connections made and correct operation checked the AWP1 can be mounted. The weight of the cabling will hold it in place while you place the dress plate over the front panel connectors. Insert four mounting screws suitable for the mounting bracket/s you have used and tighten gently to avoid damaging the surface finish of the dress plate.

6. The AWP1 has to be connected correctly to achieve EMC compliance. The AWP1's compliance does not extend to any other attached equipment or cabling. Do not make any connection (including extraneous earths caused by metal-framed structures) to the case of the AWP1 as all necessary grounding and shielding is provided by the cabling when correctly connected. **Note:** It is possible to

power the AWP1 from other equipment's 12 to 18Vdc supply (current drawn is less than 150mA), but this will often cause earth loops and we recommend against it. **Do not** power other equipment from the supply provided with the AWP1 as it may be overloaded and earth loops will be caused.

Any electrical interference caused by the installation as a whole is beyond the scope of these instructions and has to be dealt with by the installer on a case-by-case basis.

This completes the installation of the AWP1.

Internal Link Settings. a./ The boosted output can be switched to black without affecting the boosted output's sync or the Monitor o/p. Move the CONTROL link from "Disable" (default) to "Enable". Connecting the "Blanking" terminal of the 12 pin socket to ground makes the picture visible.

b./ If the 3.5mm Audio 1 input is unused, the TIP link can be moved from "Left Audio" (default) to "Blanking". With nothing plugged into the 3.5mm socket, the picture will be visible. Our CST1 remote can be used.

Audio 2 sockets. The Left (white) socket connects to left *and* right Audio 2 terminals if the Right (red) socket does not have a plug inserted.

RJ45s. All 4 pairs are wired straight through 1:1 and may be used for CAT5/e network connection, A-V Baluns, etc.

Options - Audio mix. This option adds 1:1 active mixing and output buffering of the Audio 2 and Audio 1 (PC audio) inputs. The PC audio is available for separate connection as a clean feed to speakers or line inputs. The mixing function can be disabled to provide just the buffering function for Audio 2.

BNC outputs. The VGA connector for the boosted output is replaced by 5 x BNCs for Red, Green, Blue, H sync and V sync.

S-Video input. The yellow composite video connector is replaced by a 4 pin S-Video socket. All connections are printed on the rear of the AWP1.



Fig.3 Power supply

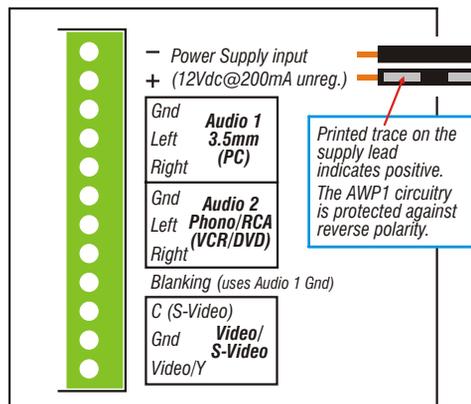
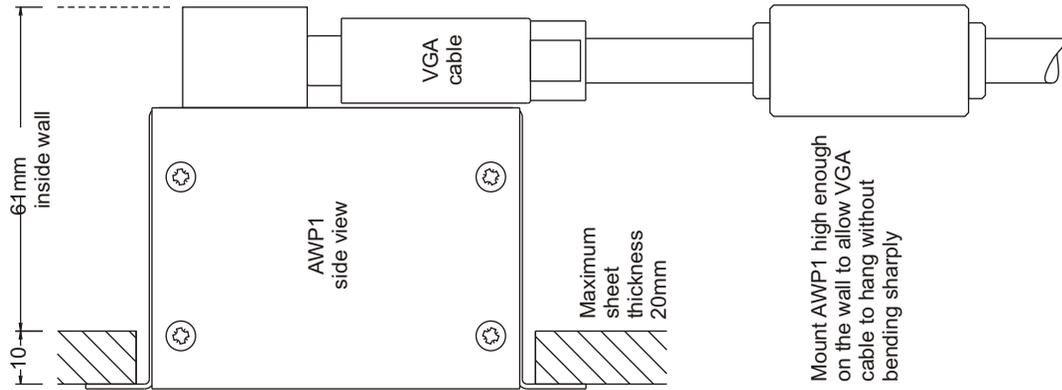


Fig.4 AWP1 terminal block connections



Fig.5 AWP1 rear view
 (Standard HD15 output shown)



TOP

AWP1 Mounting Template

WARNING: Before proceeding, ensure that there are no structural members, plumbing, electrical wiring or other obstacles in the area in which the AWP1 is to be mounted.

For use with Gypsum wall lining:-

1. Cut out this template around the solid line.
2. This template is the same size as the cover plate, so it may be used to position where the AWP1 will mount.
3. Mark centres of eight holes 'A' and 'B' with a sharp object
4. Drill four holes 'A' - 5mm or 3/16"
5. Drill four holes 'B' - 10mm or 3/8"
6. Cut between four holes 'B' following the broken lines as shown on this template with a keyhole saw or power jigsaw and remove the waste piece.
7. Standard electrical wall mounting clips or cable wall mounting bracket may be used to retain the AWP1 and the cover plate.

