

# AWP1 MkII Installation Instructions

*The AWP1 provides a convenient, attractive and professional means to connect audio, video, data and PC graphics to other equipment. It has been designed to be easy to install and use. Standard electrical mounting brackets, clips and screws can be used and are not included with the AWP1.*



Fig.1 AWP1 MkII front view  
The RJ45 data connectors on front and rear are connected 1:1 for use with CAT5e network cabling or AV baluns.

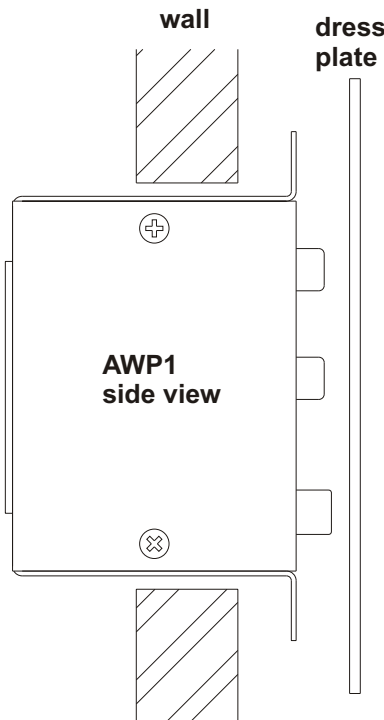


Fig.2 Wall mounting

*This sheet describes the basic steps required to connect and mount the unit.*

1. Turn off all the equipment and disconnect it from the mains supply. This is an electrical safety measure and also protects the equipment from the possibility, however unlikely it may seem, of damage due to mains leakage.

2. Cut out the provided mounting template and follow the instructions printed on it to prepare the mounting position and hardware for the AWP1. For best results we strongly advise using the template.

3. A plug-in screw-terminal block connector has been provided for the d.c. power, audio and video connections from the rear of the AWP1. The pin-out for this connector is clearly printed next to the mating connector on the rear of the AWP1. The boosted graphics output is a standard high-density 15pin female connector with the usual VGA pin-out. Use low-capacitance shielded audio cable for the audio connections, 75 ohm video cable (not rf cable) for the video connection/s (see S-Video option) and high resolution graphics cable (such as our HQ08) for the boosted graphics.

4. The AWP1 is provided with a 12V@200mA unregulated power supply. The plain black lead is -ve and the black lead with the white trace is +ve. This power supply can be mounted near the monitor, plasma panel, projector, etc. and powered up when required. The permanently attached lead will most likely need to be extended and we suggest using 2 x 23/0.2mm "figure 8" speaker cable to minimise voltage drop. **The AWP1 is protected against reverse polarity.**

5. Once all wiring has been run, the connections made and all equipment tested the AWP1 can be inserted into its mounting place. The weight of the cabling should hold it in place whilst you place the dress plate over the front panel connectors. Then insert four mounting screws suitable for the mounting bracket and tighten gently to avoid damaging the surface finish of the dress plate.

6. The AWP1 has to be connected correctly to maintain its EMC compliance. The AWP1's compliance does not extend to any other attached equipment or cabling. Avoid making 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 that it is possible to power the AWP1 from other equipment's 12 to 18Vdc supply (current drawn is less than 200mA), but this will cause earth loops and we recommend against it.

**Do not** power other equipment from the supply provided with the AWP1 as it will be overloaded and earth loops will also result. 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.

**S-Video option.** At time of manufacture the AWP1 can be provided with a miniature 4 pin D.I.N. socket instead of the usual yellow RCA/Phono composite video socket. The connections for the Y (Luminance) and C (Chroma) signals are indicated on the rear of the AWP1. The best cable for Y/C (S-Video) is a miniature low-loss dual 75 ohm video co-ax such as our CVS07A. Standard RG-59 video co-ax is suitable as far as the signal is concerned, but will be impossible to terminate into the mini 4 pin connector at the other end. For great results, use our YC2B mini-4pin DIN to 2 x BNC's adaptor to run S-Video through two RG-59 video co-axes.

**Boosted Output options.** The AWP1 can be supplied fitted with the usual high-density 15 pin female (default) or 5 x BNC's for Red, Green, Blue, H sync and V sync. The HD15 and BNC modules are easily changed.

**Blanking options.** a./ The terminal marked "Blanking" may be used to blank the boosted output (send the screen to black). The Monitor Output is not affected. To use this feature the internal link marked "CONTROL" needs to be changed from "Disable (default)" to "Enable". When the control terminal is connected to Audio 1's ground terminal on the terminal block the picture will be visible. b./ If the 3.5mm stereo input is not being used a second internal link marked "TIP" can be moved from "Left Audio (default)" to "Blanking". With nothing plugged into the 3.5mm socket, the picture will be visible. Our CST1 can be used to control the blanking. The ring of the 3.5mm socket remains connected to the right audio terminal and can be used for mono audio. The short-circuit current for the Blanking function is less than 3mA and the open-circuit voltage is less than +5V.

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

**RJ45s.** The two RJ45 connectors have all 8 pins wired through 1:1 and may be used for CAT5/e network connection, AV Baluns or other network cabling accessories.

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Fig.3 Power supply

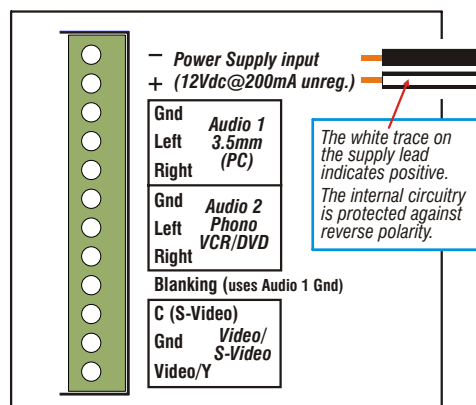


Fig.4 AWP1 MkII terminal block connections

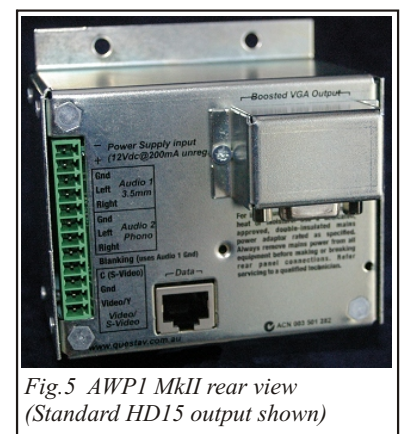


Fig.5 AWP1 MkII rear view  
(Standard HD15 output shown)