
P4700

4 - CHANNEL CLASS-D AMPLIFIER WITH SWITCH MODE POWER-SUPPLY

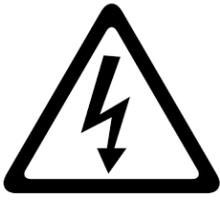
4 x 350W / 8 ohm, 4 x 550W / 4 ohm, 4 x 700W / 2 ohm, 2 x 900W in 8 ohm, 2 x 1350W in 4 ohm

1 x 900W 8 ohm + 2 x 350W 8 ohm, 1 x 1350W 4 ohm + 2 x 550W 4 ohm, 1x1350W 4 ohm + 2 x 700W 2 ohm



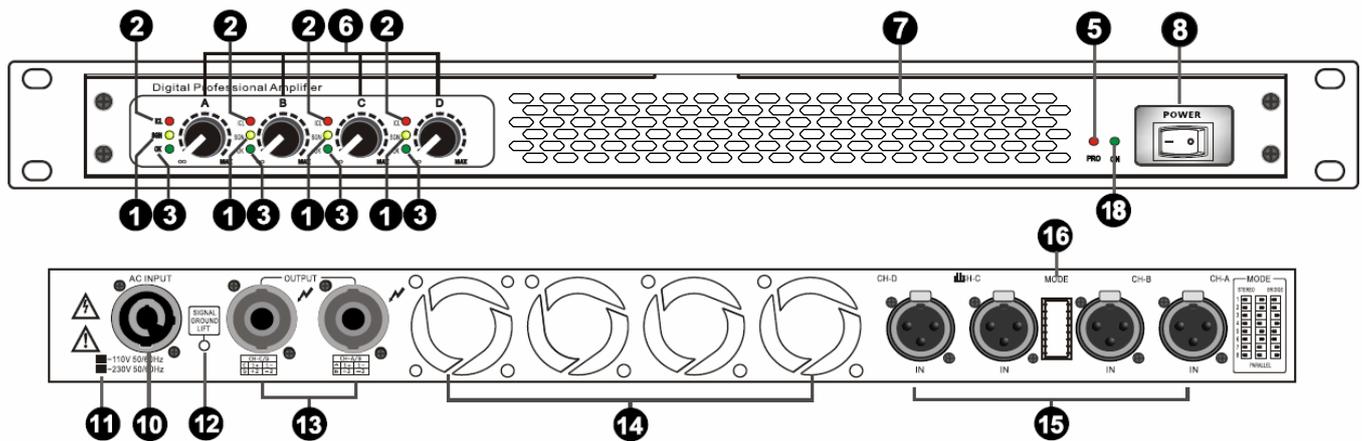
QUICKGUIDE / MANUAL

PROPHON
SOUND SYSTEMS



Warning!

- Caution: to avoid electric shock hazard, do not remove cover plate, open, or disassembly in any way, there is no repairable parts inside, contact qualified trained professional for repair and service!
- To avoid fire, damage to product, and/or electrical shock, this equipment cannot be exposed to rain, water or humid environments
- This equipment is intended for professional and commercial use only, not for home use.
- This equipment is capable of (through loudspeakers) producing high SPL (Sound Pressure Levels) that can be damaging for ears and hearing, due to high levels or long time exposure.
There are different standards and regulations in each country, make sure to respect and follow local laws regarding SPL. To be safe, avoid prolonged exposure to volumes exceeding 90 dB, short bursts of high SPL can also be damaging to ears and result in hearing loss and / or tinnitus, please keep volume down.
- Keep away from water, rain, moisture, humid environments.
- Read and understand the manual before installing or using.
- Pay attention to all warnings!
- Use and install the equipment only in the intended manner.
- This equipment may not be tempered with or in any other way changed to be used in a way it was not intended to by the manufacturer
- Clean and wipe only with dry cloth, not with wet cloth.
- The highest ambient temperature is 50° C (122° F)
- Do not restrict or in any way obscure or block the ventilation intake in the front, or outlet in the back
- This equipment uses ventilation cooling systems with fans, when installing make sure there is enough free intake air in front of the amplifier to cool the equipment, and make sure there is enough space for the hot outlet air to dissipate behind the amplifier.
- Do not install heat generating equipment above, below, in front of or at the back of this amplifier.
- This equipment must be earthed, Do not cut earth on the power in for omitting ground loop, use the ground lift function.
- Protect all connectors in the back, especially the mains Power input connector
- This equipment needs to be serviced regularly for prolonging the life-span and to make sure the equipment is safe, make sure the mains power is disconnected before service, only qualified personnel may service this equipment.
- If the amplifier in any way act suspiciously disconnect the power in connector.
- This product is not equipped with an All-Pole power switch, to completely disconnect from the AC power the AC connector must be unplugged from the AC socket.
- Make sure the mains voltage and frequency match the values specified before connecting the amplifier to the mains.
- Rack mount equipment must have reliable grounding.
- Only use accessories and attachments shipped with the product, or buy original accessories from authorized supplier.
- For personnel safety we recommend that all electrical products are connected to a RCCB (Residual current circuit breaker)
- During lightning storms and / or during time when the amplifier is not used, disconnect the power-in cord.
- This device must be maintained and serviced by qualified personnel only, if the amplifier do not work properly or work faulty only qualified personnel may repair.
- If the product is dropped, or in any other way misshandled it must be verified by qualified service-personnel before use.
- Never place objects containing liquid close to or on top of this device.
- When mounting in a rack, never mount more than four amplifiers, due to heat dissipation issues.
- Avoid switching the on/off switch in quick succession, it can cause the equipment to have a shorter life-span.
- Only replace fuses with same type and with same value, only qualified personnel may change fuses.
- When disposing of this equipment, make sure you comply with the laws within your country,
- Sort and separate plastic and cardboard for a better environment.



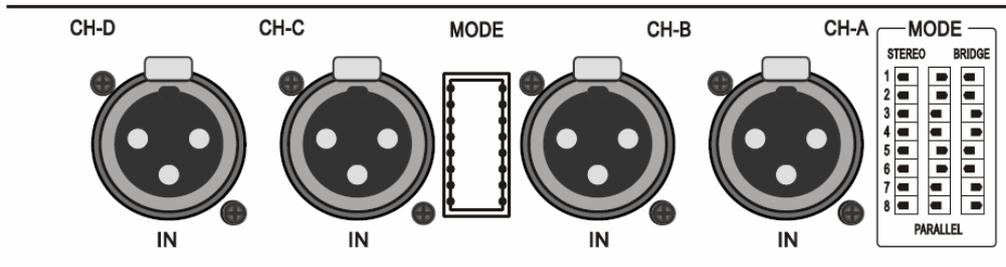
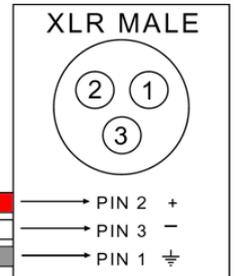
- | | |
|---|---|
| <ol style="list-style-type: none"> 1. Signal Indicator Light 2. Clipping Indicator Light 3. LED Indicator Light 4. Temperature Protection Indicator Light 5. Protected Mode Indicator Light 6. Gain Control 7. Cooling Vent intake 8. N / A 9. AC Fuse | <ol style="list-style-type: none"> 10. Neutrik Powercon Input 11. Operation Voltage Mark 12. Signal Grounding Switch 13. Speakon Output Connector 14. 4 x ventillation fans outlet 15. XLR/PHOENIX Input Connector 16. Stereo and Bridge Connection Mode Selector Switch 17. N / A 18. Power Indicator Light |
|---|---|

Use balanced XLR male input connector

Wiring:

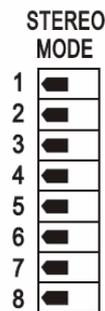
- 1) earth/ground/shield
- 2) hot
- 3) cold

PHASE	Termination Point
POSITIVE +	PIN 2
NEGATIVE -	PIN 3
SIGNAL GROUND ⚡	PIN 1



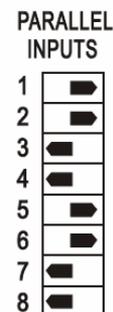
Stereo Mode:

1, 2, 3, 4, 5, 6, 7 and 8 are set on the left side, and CHA, CHB, CHC and CHD are connected to signal.



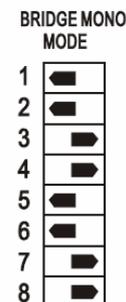
Parallel Mode:

1, 2, 5 and 6 are set on the right side, 3, 4, 7 and 8 on the left side, while CHA and CHC are connected to signal.



Bridge Connection Mode:

3, 4, 7 and 8 are set on the right side, 1, 2, 5 and 6 on the left side, while CHA and CHC are connected to signal.

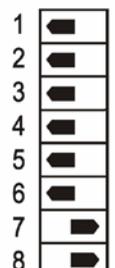
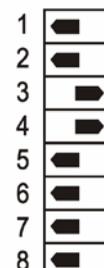


3-way mode: (one channel bridge + 2 stereo)

the bridged channel uses 1+ as positive and 2+ as negative for bridging Channel A+B set the switches 1, 2, 5, 6, 7, 8 to the left, and switches 3, 4 to the right

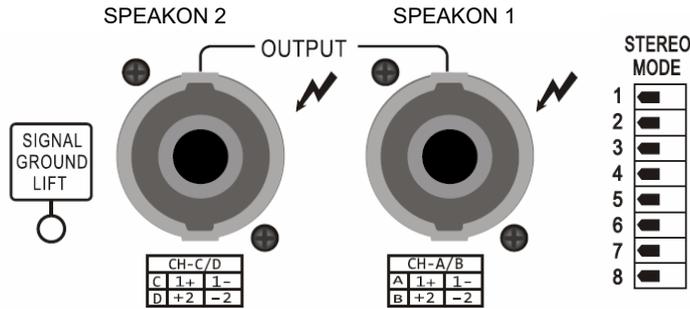
for bridging Channel C+D set the switches 1, 2, 3, 4, 5, 6, to the left, and switches 7, 8 to the right

CH A+B BRIDGE CH C & D STEREO CH C+D BRIDGE CH A & B STEREO



STEREO MODE - 4 Signal input / 4 channel output

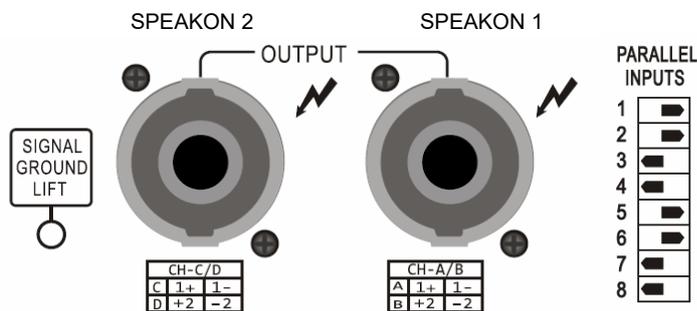
When using the P4700 in stereo mode each XLR input A, B, C, D corresponds to four separate amplifier channel outputs. Output A is connected on Speakon connector 1, on 1+/1-, Output B is connected on speakon connector 1 on 2+/2- Output C is connected on Speakon connector 2 on 1+/1-, Output D is connected on Speakon connector 2 on 2+/2-



PARALLEL MODE - 2 Signal input / 4 channel output

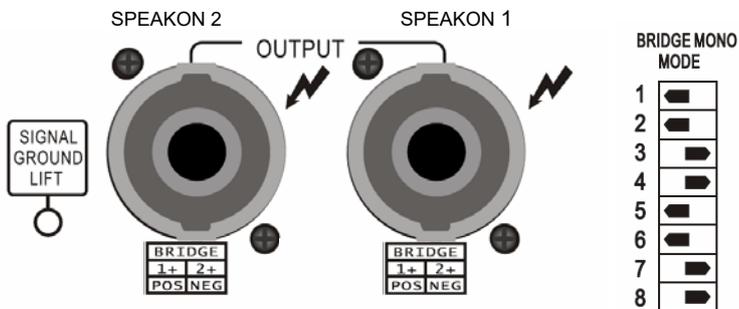
When using the P4700 in parallel mode,

Input XLR connector A connects to SPEAKON output 1, with 1+/1- for channel A out, 2+/2- to channel B out. Input XLR connector C connects to Speakon 2, with 1+/1- to channel C out, and 2+/2- to channel D out



BRIDGED MODE - 2 channel mode

When used in bridge mode P4700 uses channel A and channel C XLR input, Be sure to set the dip-switches correct, (1, 2, 5, & 6 to the left, and 3, 4, 7 & 8 to the right) Use 1+ as positive (+) and 2+ as negative (-) in each speakon.



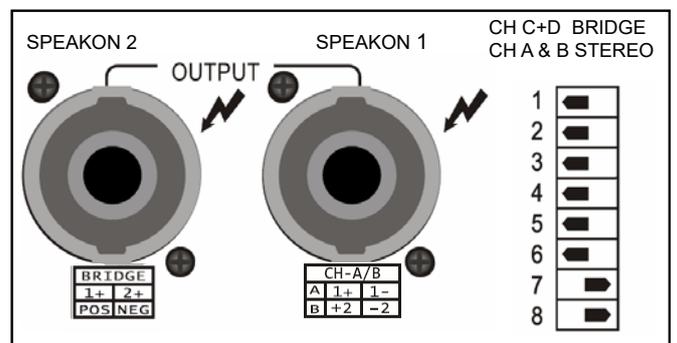
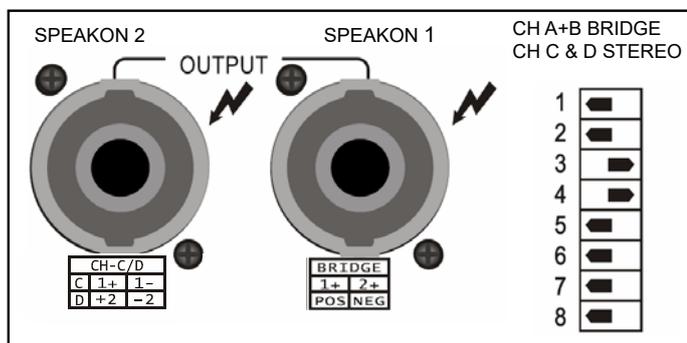
3-WAY MODE - 2 channel stereo + 1 channel bridged

When used in 3-way mode P4700 can use two channels bridged (either A+B or C+D) delivering up to 1350W into 4 ohm (not to be used in 2 ohm load) and the other two channels can be used as a stereo with up to 2 x 750W into 2 ohm load. Perfect for a setup with mono subwoofer and two stereo top channels, where the bridged mono subwoofer can utilize more power in a better and more efficient way.

For bridging A+B and keeping C and D as stereo, set dipswitches 1, 2, 5, 6, 7, 8 to the left and 3, 4 to the right

For bridging C+D and keeping A and B as stereo, set dipswitches 1, 2, 3, 4, 5, 6, to the left, and 7, 8 to the right

The channels that is bridged uses Speakon 1+ as positive (+) and 2+ as negative (-)



Power

4 x 350W / 8 ohm

4 x 550W / 4 ohm

4 x 700W / 2 ohm

2 x 900W BRIDGED in 8 ohm

2 x 1350W BRIDGED in 4 ohm

1 x 900W BRIDGED in 8 ohm + 2x350W 8 ohm

1 x 1350W BRIDGED in 4 ohm + 2x550W 4 ohm

1 x 1350W BRIDGED in 4 ohm + 2x700W in 2 ohm

Frequency Response	20Hz-20KHz \pm 3dB	
THD + N	<0.05%@8 Ω 1KHz	
S/N Ratio	>90dB	
Slewing rate	40V/ μ s	
Damping Coefficient	>600@8 Ω	
Channel Isolation	>100dB@8 Ω 1KHz	
Input Impedance	20K Ω (balance)/10K Ω (unbalance)	
Input Sensitivity	1.0V	
Protection Function	DC, short circuit, over heat, softstart	
Control Function	Front Panel: power Switch/CH volume Rear Panel: mode, stereo, parallel, bridge, ground lift	
Height, width	Height: 1RU	Width: 19"
Weight & dimensions	Weight: 5,5 kg.	Depth: 350 mm.

* 0 dB=0.775 Vrms

PROPHON

SOUND SYSTEMS

PROPHON AUDIO & TEKNIK AB

Linjalvägen 10C, 187 66 TÄBY

STOCKHOLM, SWEDEN

Tel: +46 8 92 86 00

Mail: info@prophon.se

Web: www.prophon.com