



Palladium

P-400	ORDERCODE D4131(B)
P-500	ORDERCODE D4132(B)
P-700	ORDERCODE D4133(B)
P-900	ORDERCODE D4134(B)
P-1200	ORDERCODE D4135(B)
P-1600	ORDERCODE D4136(B)
P-2000	ORDERCODE D4137(B)



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SHOWELECTRONICS FOR PROFESSIONALS

Congratulations!

You have bought a great, innovative product from DAP Audio.

The DAP Audio Palladium Series brings excitement to any venue. Whether you want simple plug-&-play action or a sophisticated show, this product provides the effect you need.

You can rely on DAP Audio, for more excellent audio products.

We design and manufacture professional audio equipment for the entertainment industry.

New products are being launched regularly. We work hard to keep you, our customer, satisfied.

For more information: iwant@dap-audio.info

You can get some of the best quality, best priced products on the market from DAP Audio.

So next time, turn to DAP Audio for more great audio equipment.

Always get the best -- with DAP Audio !

Thank you!



DAP Audio

DAP Audio Palladium™ Product Guide

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Warning

**FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY
BEFORE YOUR INITIAL START-UP!**

Unpacking Instructions

Immediately upon receiving this product, carefully unpack the carton and check the contents to ensure that all parts are present, and have been received in good condition. Notify the dealer immediately and retain packing material for inspection if any parts appear damaged from shipping or the carton itself shows signs of mishandling. Save the carton and all packing materials. In the event that a fixture must be returned to the factory, it is important that the fixture be returned in the original factory box and packing.

Your shipment includes:

- Dap Audio Palladium with IEC Powercable 1,5m
- User manual



CAUTION!
Keep this device away from rain and moisture!
Unplug mains lead before opening the housing!



Safety Instructions

Every person involved with the installation, operation and maintenance of this device has to:

- be qualified
- follow the instructions of this manual



CAUTION! Be careful with your operations.
With a dangerous voltage you can suffer
a dangerous electric shock when touching the wires!



Before your initial start-up, please make sure that there is no damage caused by transportation. Should there be any, consult your dealer and do not use the device.

To maintain perfect condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this manual.

Please consider that damages caused by manual modifications to the device are not subject to warranty.

This device contains no user-serviceable parts. Refer servicing to qualified technicians only.

IMPORTANT:

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to the device.

- Never let the power-cord come into contact with other cables! Handle the power-cord and all connections with the mains with particular caution!
- Never remove warning or informative labels from the unit.
- Never use anything to cover the ground contact.
- Never leave any cables lying around.
- Do not open the device and do not modify the device.
- Do not insert objects into air vents
- Do not connect this device to a dimmerpack.
- Do not switch the device on and off in short intervals, as this would reduce the system's life.
- Do not touch the device's housing bare-handed during its operation (housing becomes very hot). Allow the fixture to cool for at least 15 minutes before handling.
- Do not shake the device. Avoid brute force when installing or operating the device.

- Only use device indoor, avoid contact with water or other liquids.
- Only operate the fixture after having checked that the housing is firmly closed and all screws are tightly fastened.
- Only operate the device after having familiarized with its functions.
- Avoid flames and do not put close to flammable liquids or gases.
- Always disconnect power from the mains, when device is not used or before cleaning! Only handle the power-cord by the plug. Never pull out the plug by tugging the power-cord.
- Make sure that the device is not exposed to extreme heat, moisture or dust.
- Make sure that the available voltage is not higher than stated on the rear panel.
- Make sure that the power-cord is never crimped or damaged. Check the device and the power-cord from time to time.
- Make sure that there is sufficient room on all sides of the system for air circulation.
- Make sure you don't use the wrong kind of cables or defective cables.
- Make sure that signals into the mixer are balanced, otherwise hum could be created.
- Avoid ground loops! Always be sure to connect the power amps and the mixing console to the same electrical circuit to ensure the same phase!
- Please turn off the power switch, when changing the power cord or signal cable.
- Make sure that the amplifier is turned down, before turning the power on or off. So you can avoid supersonic frequencies, which could damage your speakers.
- Make sure that the amplifier is turned down, before turning the power on or off. So you can avoid supersonic frequencies, which could damage your speakers.
- Don't put your equipment next to TV, radio, etc., because of interference or distortion.
- If you connect other parts of the system, be careful of ground loops.
- The best way to avoid ground loops is connecting the electrical system ground to one central point ("star" system). In this case the mixer can act as a central point.
- To prevent humming, please try different combinations of ground-lift or connect all chassis to the system ground, either by a power cable or frontcover rack screws.
- Before changing the ground, always turn off your amplifier.
- Please read this manual carefully and keep it for future reference. Remember that the amplifier has a better value on the market, if you save the carton and all packing materials.
- Prevent distortion! Make sure that all components connected to the Palladium have sufficient power ratings. Otherwise distortion will be generated because the components are operated at their limits.
- If device is dropped or struck, disconnect mains power supply immediately. Have a qualified engineer inspect for safety before operating.
- If the device has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation water might damage your device. Leave the device switched off until it has reached room temperature.
- If your Dap Audio device fails to work properly, discontinue use immediately. Pack the unit securely (preferably in the original packing material), and return it to your Dap Audio dealer for service.
- Never attempt to bypass the thermostatic switch or fuses.
- Allow time to cool down, before cleaning or servicing.
- For replacement use fuses of same type and rating only.
- This device falls under protection class I. Therefore it is essential to connect the yellow/green conductor to earth.
- Repairs, servicing and electric connection must be carried out by a qualified technician.
- WARRANTY: Till one year after date of purchase.

Operating Determinations

If this system is operated in any other way, than the one described in this manual, the product may suffer damages and the warranty becomes void.

Any other operation may lead to dangers like short-circuit, burns, electric shock, etc.

You endanger your own safety and the safety of others!

Improper installation can cause serious damage to people and property !

Connection with the mains

Connect the device to the mains with the power-plug.

Always pay attention, that the right color cable is connected to the right place.

International	EU (including UK) From April 2004	North America	Pin
L	Brown	Black	Phase
N	Blue	White	Neutral
	Green/Yellow	Green	Protective Earth

Make sure that the device is always connected properly to the earth!



Return Procedure

Returned merchandise must be sent prepaid and in the original packing, call tags will not be issued. Package must be clearly labeled with a Return Authorization Number (RMA number). Products returned without an RMA number will be refused. Highlite will not accept the returned goods or any responsibility. Call Highlite 0031-455667723 or mail aftersales@highlite.nl and request an RMA prior to shipping the fixture. Be prepared to provide the model number, serial number and a brief description of the cause for the return. Be sure to properly pack fixture, any shipping damage resulting from inadequate packaging is the customer's responsibility. Highlite reserves the right to use its own discretion to repair or replace product(s). As a suggestion, proper UPS packing or double-boxing is always a safe method to use.

Note: If you are given an RMA number, please include the following information on a piece of paper inside the box:

- 1) Your name
- 2) Your address
- 3) Your phone number
- 4) A brief description of the symptoms

Claims

The client has the obligation to check the delivered goods immediately upon delivery for any shortcomings and/or visible defects, or perform this check after our announcement that the goods are at their disposal. Damage incurred in shipping is the responsibility of the shipper; therefore the damage must be reported to the carrier upon receipt of merchandise.

It is the customer's responsibility to notify and submit claims with the shipper in the event that a fixture is damaged due to shipping. Transportation damage has to be reported to us within one day after receipt of the delivery.

Any return shipment has to be made post-paid at all times. Return shipments must be accompanied with a letter defining the reason for return shipment. Non-prepaid return shipments will be refused, unless otherwise agreed in writing.

Complaints against us must be made known in writing or by fax within 10 working days after receipt of the invoice. After this period complaints will not be handled anymore.

Complaints will only then be considered if the client has so far complied with all parts of the agreement, regardless of the agreement of which the obligation is resulting.

Description of the device

Features

The Palladium is an amplifier from DAP Audio. There are 7 different versions: P-400, P-500, P-700, P-900, P-1200, P-1600 and P-2000.

P400

Stereo mode:

- 2x 150 Watt RMS – 8 Ω
- 2x 225 Watt RMS – 4 Ω

Bridged mode: 450 Watt RMS – 8 Ω

P500

Stereo mode:

- 2x 180 Watt RMS – 8 Ω
- 2x 270 Watt RMS – 4 Ω

Bridged mode: 540 Watt RMS – 8 Ω

P700

Stereo mode:

- 2x 240 Watt RMS – 8 Ω
- 2x 360 Watt RMS – 4 Ω

Bridged mode: 720 Watt RMS – 8 Ω

P900

Stereo mode:

- 2x 350 Watt RMS – 8 Ω
- 2x 525 Watt RMS – 4 Ω

Bridged mode: 1050 Watt RMS – 8 Ω

P1200

Stereo mode:

- 2x 530 Watt RMS – 8 Ω
- 2x 800 Watt RMS – 4 Ω

Bridged mode: 1600 Watt RMS – 8 Ω

P1600

Stereo mode:

- 2x 600 Watt RMS – 8 Ω
- 2x 900 Watt RMS – 4 Ω

Bridged mode: 1800 Watt RMS – 8 Ω

P2000

Stereo mode:

- 2x 700 Watt RMS – 8 Ω
- 2x 1050 Watt RMS – 4 Ω

Bridged mode: 2100 Watt RMS – 8 Ω

Overview



Fig. 1

- 1) Frontside Channel PROTECT.CLIP.POWER LEDs
- 2) Power-Switch / Circuit Breaker
- 3) Air intake grill
- 4) Channel Attenuators

Backside

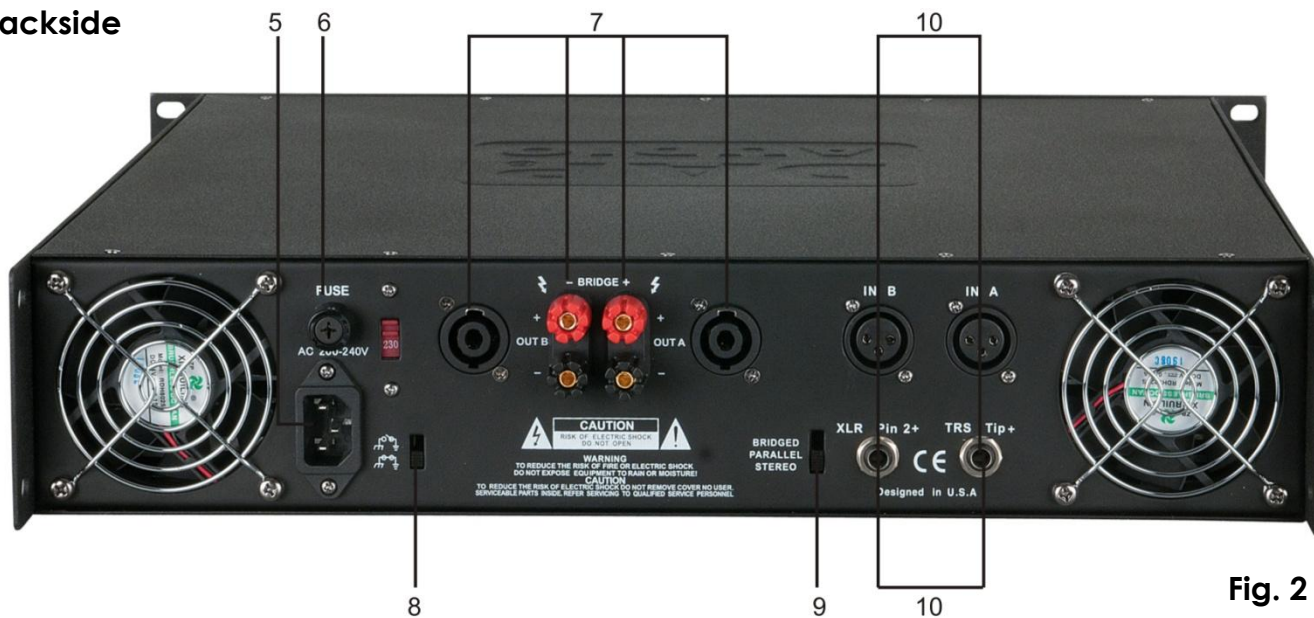


Fig. 2

- 5) IEC Power connector
- 6) Fuse
- 7) 5-way Binding post + output Connectors
- 8) Signal Ground Lift Switch
- 9) Bridged / Parallel / Stereo
- 10) Balanced Phone Jack Inputs

Installation

Remove all packing materials. Check that all foam and plastic padding has been removed. Secure the equipment into a 19" rack. Connect all cables.

Set Up and Operation

Before plugging the unit in, always make sure that the power supply matches the product specification voltage. Do not attempt to operate a 120V specification product on 240V power, or vice versa. Do not supply power before all components of the system are set up and connected properly.

Connection Inputs

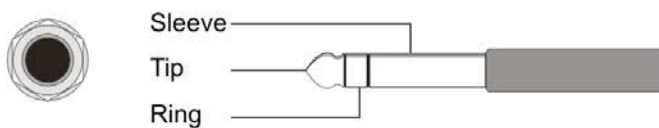
The balanced phone jack inputs have a nominal impedance of $20\text{ K}\Omega$ ($10\text{ K}\Omega$ with unbalanced wiring) and will accept the line level output of most devices. The correct input depends on 2 factors: (1) whether the input signals are balanced or unbalanced, and (2) whether the signal source floats or has ground reference. Figures provide examples of recommended connection techniques for each type of signal source. The optional connector is shown.

The amplifier's built-in 1/4"-Input-Phone-Connectors can be wired similarly for balanced or unbalanced, floating or ground-referenced sources.

The phone connectors have a standard Tip-Ring-Sleeve (TRS) – configuration: The tip is positive (+), the ring is negative (-) and the sleeve is ground.

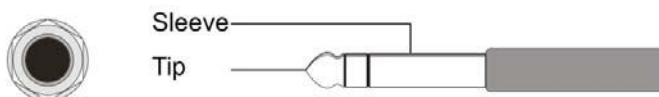
a) Jack-Inputs Balanced Signals

Tip=HOT, Ring=COLD, Sleeve=Ground



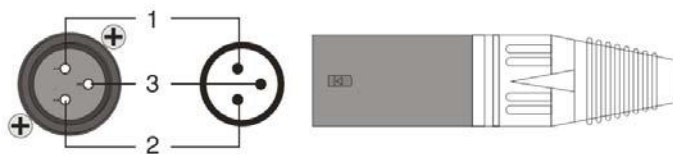
b) Jack-Inputs Unbalanced Signals

Tip=HOT, Sleeve=Ground



c) XLR INPUTS Balanced Signals

Pin 1=Ground, Pin2=HOT, Pin3=COLD



Connecting Outputs

Speakers can be connected using Banana plugs, Speakon plugs or bare wire to the binding posts on the rear panel of the amplifier. Consult the Wire-Gauge-Chart to determine suitable wire gauges for different load impedances and cable lengths. The red binding posts are considered „hot“, connected to the positive poles of the speakers, while the black binding-posts are Signal Ground, connected to the negative poles of the speakers.

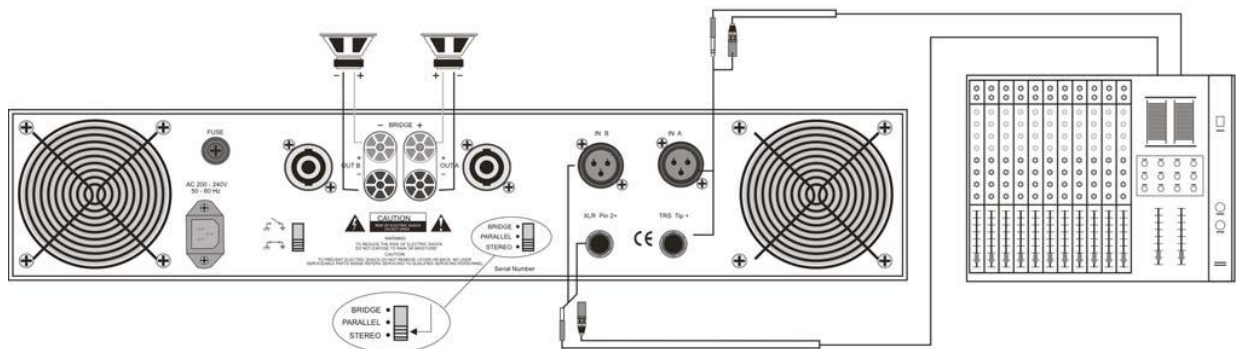
Never connect a „hot“ (red) Output to the Ground or to other „hot“ (red) Outputs! Always turn off the amplifier before making connections.

Connecting Power

The actual current draw, the amplifier demands from the AC mains, depends on many factors (its load, output level or the crest factor of its program material). The power requirement is rated under typical music conditions, with both channels driven so those peaks are just at the clipping point.

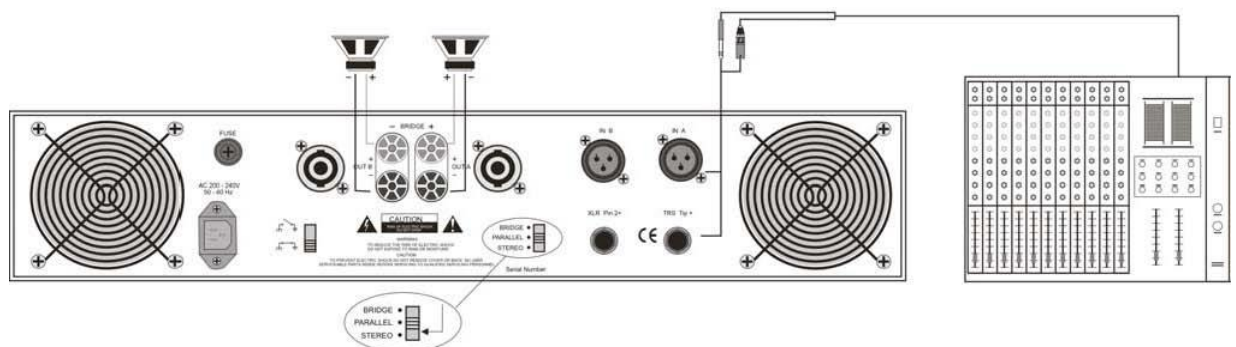
Stereo Operation

For stereo (dual channel) operation, set the mode select switch to the “Stereo” position. In this mode both channels operate independently of each other, with their input attenuates controlling their respective levels. A signal at Channel A's input produces an amplified signal at Channel A's output, while a signal at Channel B's input produces an amplified signal at Channel B's output.



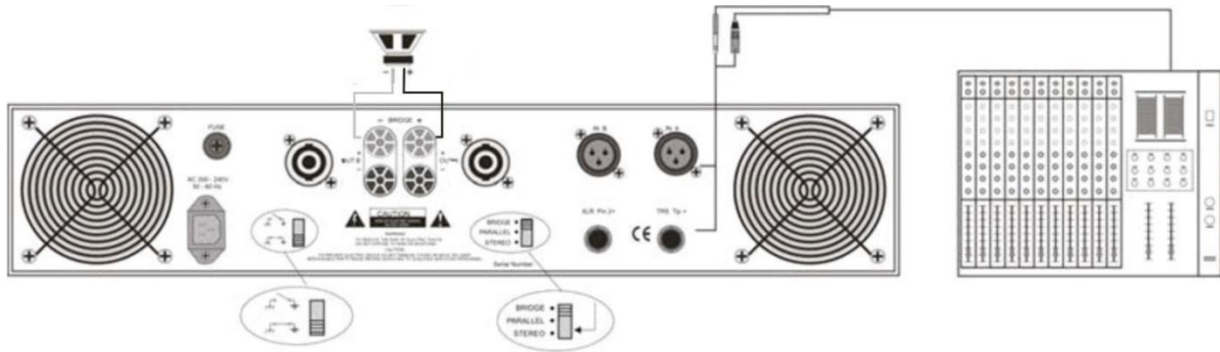
Parallel Operation

For parallel operation, set the mode select switch in the “parallel” position. In this mode, a signal applied to Channel A's input will be amplified and appear at outputs of both Channels A&B.



Bridged Mono Operation

Both amplifier channels can be bridged together to make a very powerful single channel amplifier. When the Mode switch is set to the "Bridge" position, 1 channel "pushes", while the other "pulls" equally. Thus effectively doubling the power. Use extreme caution when operating the amplifier in the bridged mode. To bridge the amplifier, set the mode switch to the "Bridge" position. Apply the signal to Channel A's input and connect the speakers across the "hot" outputs – the red binding posts – of Channel A and B. Channel B's "hot" output is in phase with the input. For operation adjust only the Channel A's input attenuator, while Channel B's input will not function (Channel B's input signal has been disconnected).



Bridging Precautions

Never ground either side of the speaker cable when the amplifier is in bridged mode; Both sides are „hot“. If an output patch panel is used, all terminals must be isolated from each other and from the ground.



Switches and controls

Input Attenuators

Whenever possible, set attenuators fully clockwise to maintain optimum system headroom. The input attenuator controls (one for channel A, one for channel B) located at the front panel adjust gain for their, respective amplifier channels in all modes. See the specifications at the end of this manual for standard voltage gain and input sensitivity information. When operating the amplifier in bridged mode, both attenuates must be in the same position, so the speaker load will be equally shared between the channels.

Mode-Select-Switch

The rear panel mode select switch determines whether the amplifier is in the stereo or bridged mono mode. Do not operate the mode select switch with the amplifier on.

Ground Lift Switch

In a properly designed system (for safety and to minimize noise), the amplifier should receive its ground from the line cord. Whenever possible, the signal source equipment should share the same AC ground as the amplifier(s). In some cases, this may result in a ground loop. If this happens, remove the use the ground lift switch to lift the signal ground and isolate it completely from the chassis / AC ground.

Indicators

The Palladium features 4 front LED indicators per channel: Clip, Signal, Protect und Power. These LED indicators inform the user of each channel's operating status and warn of possible abnormal conditions.

Clip LED

A channel's red clip LED will light dimly at the onset of clipping and increase in brilliance, as clipping becomes more severe, staying on until the clipping ceases. If the LED's are flashing quickly and intermittently, the channel is just at the clip threshold, while a steady, bright glow means the amp is clip limiting, or reducing gain to prevent severely clipped waveforms reaching the speakers.

Signal-LED

This green LED lights, when its channel produces an output signal of about 4 Volt RMS or more (0,1V or more at the input, with 0dB attenuation and standard 40X voltage gain). It is useful to determine whether the amplifier is amplifying a signal.

Protect LED

When the red LED lights, indicating that the channel has overheated, the channel's output relay is open, and the speaker(s) has been disconnected for any of the following reasons:

1. The unit was just powered up and is in the turn – on delay mode
2. The amplifier senses a DC voltage at its output.

Power LED

This indicator LED lights, when the amplifier has been turned on, AC power is available and the low-voltage power supply and fan are operational.

Protection Features

Every amplifier incorporates several circuits to protect themselves and the speakers under virtually any situation. Dap Audio has attempted to make the amplifier as "foolproof" as possible by making it impervious to short and open circuits, DC Voltage and overheating.

When a problem occurs, that causes a channel to go into a protection mode, the PROTECT for that channel will glow. DC voltage on the output, excessive subsonic frequencies, or thermal overloads will cause the channel's output relay to disconnect the speaker load, until the problem is corrected or the amplifier cools down.

The internal fan(s) will keep the amplifier operating well within its intended temperature range under all normal conditions.

When a channel's heat sink temperature reaches 90 °C, which may indicate an obstructed air supply, clogged air filter, etc, the channel will disconnect its load. Normal operation will resume automatically once it cools to 80 °C. During this time, the channel's PROTECT LED will light.

Short Circuit

If an output is shorted, the protection circuit will be more sensitive, than in the normal protection situation and will protect the channel's output transistors from the current stress. The channel's PROTECT LED will light. If the short circuit remains, the channel will eventually thermally protect itself by disconnecting the load.

DC Voltage Protection

If an amplifier channel detects DC voltage at its output, its output will immediately open to prevent speaker damage. The channel's PROTECT LED will light.

Subsonic Frequencies

All amplifiers have a built-in subsonic frequency protection circuit, cornered at 10Hz, for each channel. An additional feature is a special high frequency protection technology, which enables you to automatically disconnect speakers, when excessive high frequency energy appears at the output.

Turn-On/Turn-Off-Protection

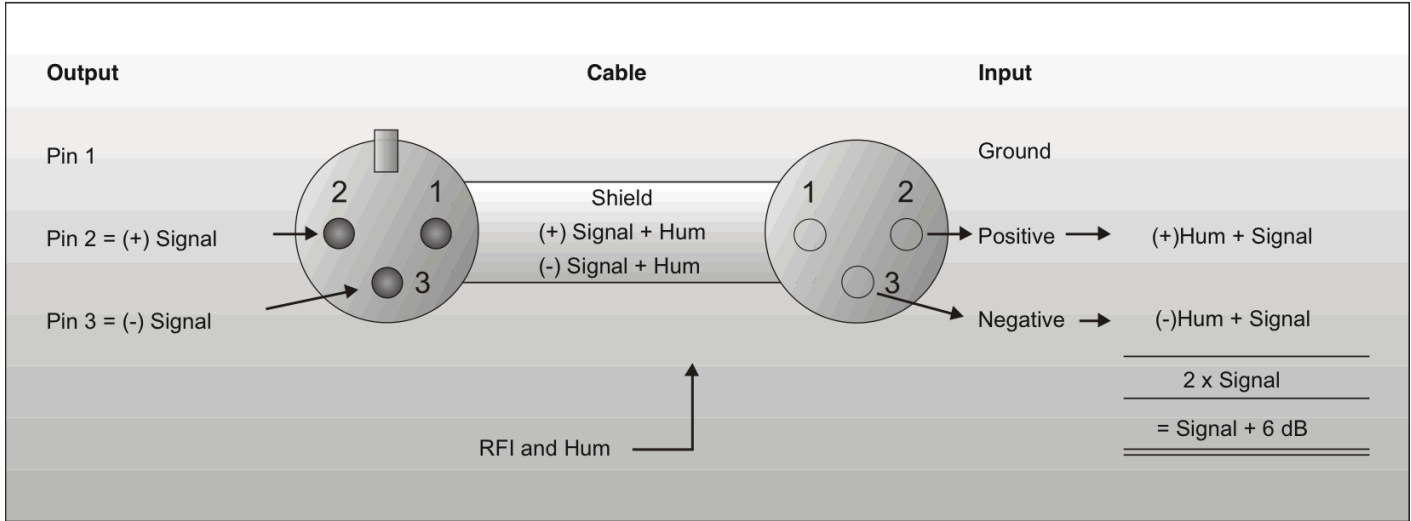
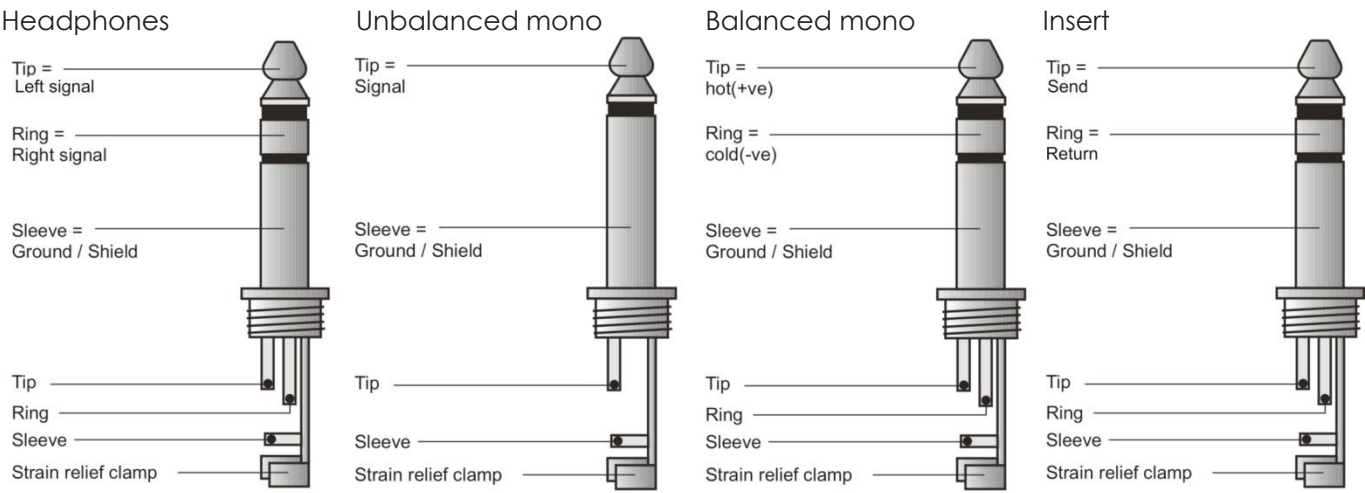
At power up, the speakers are disconnected. The power supplies charge for about 2-3 seconds and stabilize, and then the speakers are connected. When power is removed, speaker loop is synchronized with the turn off signal, therefore no thumps or pops are heard.

Speaker-Protection

All amplifiers automatically protect speakers from DC voltage, subsonic signals and excessive high frequency signal, but users should be aware of the application limits of their speakers. Be aware that the amplifiers power does not exceed the speaker's power capabilities.

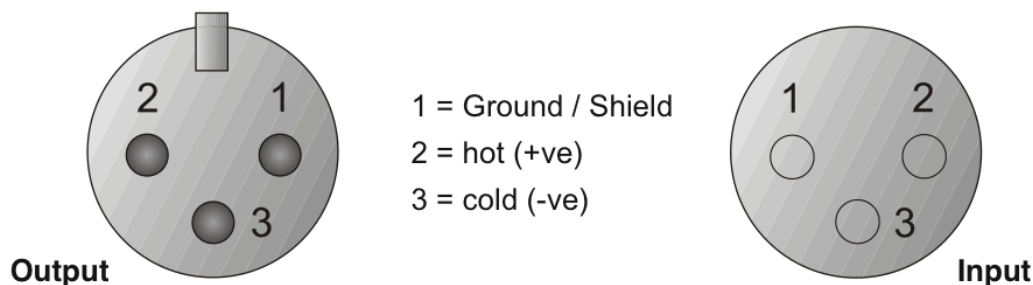
Connection Cables

Take care of your cables, always holding them by the connectors and avoiding knots and twists when coiling them: This gives the advantage of increasing their life and reliability. Periodically check your cables. A great number of problems (faulty contacts, ground hum, discharges, etc.) are caused entirely by using unsuitable or faulty cables.



Compensation of interference with balanced connections

Balanced use with XLR connectors



For unbalanced use PIN 1 and PIN 3 have to be bridged

Maintenance

The DAP Audio Palladium-series requires almost no maintenance. However, you should keep the unit clean. Disconnect the mains power supply, and then wipe the cover with a damp cloth. Do not immerse in liquid. Do not use alcohol or solvents.

Keep connections clean. Disconnect electric power, and then wipe the audio connections with a damp cloth. Make sure connections are thoroughly dry before linking equipment or supplying electric power.

Replacing a Fuse

Power surges, short-circuit or inappropriate electrical power supply may cause a fuse to burn out. If the fuse burns out, the product will not function whatsoever. If this happens, follow the directions below to do so.

1. Unplug the unit from electric power source.
2. Insert a flat-head screwdriver into a slot in the fuse cover. Turn the screwdriver to the left, at the same time gently push a bit (Turn and Push). The fuse will come out.
3. Remove the used fuse. If brown or unclear, it is burned out.
4. Insert the replacement fuse into the holder where the old fuse was. Reinsert the fuse cover. Be sure to use a fuse of the same type and specification. See the product specification label for details.

Troubleshooting

DAP Audio Palladium-series Amplifiers.

This troubleshooting guide is meant to help solve simple problems. If a problem occurs, carry out the steps below in sequence until a solution is found. Once the unit operates properly, do not carry out following steps.

1. If the device does not operate properly, unplug the device.
2. Check the fuse, power from the wall, all cables, etc.
3. If all of the above appears to be O.K., plug the unit in again.
4. If you are unable to determine the cause of the problem, do not open the amplifier, as this may damage the unit and the warranty will become void.
5. Return the amplifier to your Dap Audio dealer.

Product Specification

Specification	P-400	P-500	P-700	P-900	P-1200	P-1600	P-2000
8 Ω Stereo Power (RMS)	150W	180W	240W	350W	530W	600W	700W
4 Ω Stereo Power (RMS)	225W	270W	360W	525W	800W	900W	1050W
8 Ω Bridge Power (RMS)	450W	540W	720W	1050W	1600W	1800W	2100W
Frequency Response	20 Hz -45KHz, - 1 dB (1W / 8 Ω)						
THD + N	<0.05%	<0.05%	<0.05%	<0.05%	<0.05%	<0.05%	<0.05%
IMD	<0.01%	<0.01%	<0.01%	<0.01%	<0.01%	<0.01%	<0.01%
Slew Rate	40V/ μ s	40V/ μ s	40V/ μ s	40V/ μ s	40V/ μ s	40V/ μ s	40V/ μ s
Damping Factor at 8 Ω	>250	>250	>250	>250	>300	>300	>300
Input CMRR	>60dB	>60dB	>60dB	>60dB	>60dB	>60dB	>60dB
Voltage Gain	50x standard	50x standard	50x standard	61x standard	70x standard	80x standard	91x standard
Input Sensitivity	1V +2,2dBu	1V +2,2dBu	1V +2,2dBu	1V +2,2dBu	1V +2,2dBu	1V +2,2dBu	1V +2,2dBu
Input Impedance	20K Ω , balanced 10K Ω , unbalanced	20K Ω , balanced 10K Ω , unbalanced	20K Ω , balanced 10K Ω , unbalanced	20K Ω , balanced 10K Ω , unbalanced	20K Ω , balanced 10K Ω , unbalanced	20K Ω , balanced 10K Ω , unbalanced	20K Ω , balanced 10K Ω , unbalanced
SNR	>105dB	>105dB	>105dB	>105dB	>105dB	>105dB	>105dB
Crosstalk	>60dB	>60dB	>60dB	>60dB	>60dB	>60dB	>60dB
Connectors (per channel)	2x Speakon, 2 pairs of Binding Posts						
Power Supply	200 - 240 V / 50 – 60 Hz						
Power consumption (2x4 Ω)	690W	850W	1100W	1650W	2300W	2440W	2925W
Main Fuse	T5A	T6,3A	T8A	T10A	T10A	T12A	T15A
Cooling	2 variable speed DC fans						
Controls	2 front attenuators, rear panel signal ground lift jumper						
Indicators (per channel)	Protect LED, Clip LED, Signal LED, Power LED						
Protection	Temperature, DC, sub / ultra, sonic short circuit, IGM, output						
Dimensions (LxWxH)	483x430x 89 mm	483x430x 89 mm	483x430x 89 mm	483x430x 89 mm	483x430x 89 mm	483x430x 89 mm	483x430x 89 mm
Net Weight	11,32 Kg	11,78 Kg	13,44 Kg	15,32 Kg	16,26 Kg	18,96 Kg	19,88 Kg

Design and product specifications are subject to change without prior notice.



Website: www.DapAudio.info
Email: service@highlite.nl

Wire Gauge Chart (Metric)

Stranded Cable Length (m)	Wire Gauge	Power Loss % (8 ohm load)	Power Loss % (4 ohm load)	Power Loss % (2 ohm load)
2	0,3	2,9	5,6	10,8
	0,5	1,74	3,4	6,7
	0,75	1,16	2,3	4,5
	1,5	0,58	1,16	2,3
	2,5	0,35	0,7	1,39
	4	0,22	0,44	0,87
5	0,5	4,3	8,2	15,5
	0,75	2,9	5,6	10,8
	1,5	1,45	2,9	5,6
	2,5	0,87	1,74	3,4
	4	0,55	1,09	2,2
	6	0,37	0,73	1,45
10	0,5	8,24	15,5	28
	0,75	5,6	10,8	19,9
	1,5	2,9	5,6	10,8
	2,5	1,74	2,9	6,7
	4	1,09	1,74	4,3
	6	0,73	1,09	2,9
30	0,75	15,5	0,73	45
	1,5	8,2	15,5	28
	2,5	5,1	9,8	18,2
	4	3,2	6,3	12
	6	2,2	4,3	8,2
	10	1,31	2,6	5,1

Wire Gauge Chart (AWG: American Wire Gauge)

Stranded Cable Length(ft)	Wire Gauge (AWG)	Power Loss % (8 ohm load)	Power Loss % (4 ohm load)	Power Loss % (2 ohm load)
5	18	0.81	1.61	3.2
	16	0.51	1.02	2
	14	0.32	0.64	1.28
	12	0.2	0.4	0.8
	10	0.128	0.25	0.51
10	18	1.61	3.2	6.2
	16	1.02	2	4
	14	0.64	1.28	2.5
	12	0.4	0.8	1.6
	10	0.25	0.51	1.01
40	18	6.2	11.9	22
	16	4	7.7	14.6
	14	2.5	5	9.6
	12	1.6	3.2	6.2
	10	1.01	2	4
	8	0.6	1.2	2.4
80	18	11.9	22	37
	16	7.7	14.6	26
	14	5	9.6	17.8
	12	3.2	6.2	11.8
	10	2	4	7.7



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