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# DPI Series

Professional Power Amplifiers

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- **DPI 10** □ 2 x 300 W
- **DPI 15** □ 2 x 500 W
- **DPI 20** □ 2 x 800 W
- **DPI 30** □ 2 x 1.100 W
- **DPI 40** □ 2 x 1.500 W

**Preliminary  
User manual**

## Introduction

Thank you for choosing the Q4audio DPI series for your application. You have made an excellent choice. DPI series is part of a new breed of power amplifiers using our proprietary switching output stage, also called class D (CLD) topology.

The rugged steel chassis and conventional power supply based on a low flux toroidal transformer make it a perfect match for applications where portability is not a premium requirement.

DPI incorporates unique features that require some study before being applied. One of these features is the EFL® (Extended Feedback Loop) remote sensing technique. If you intend to use this feature read the section on this subject carefully.

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## 1. Safety Symbols

### Explanation of graphical symbols:



This symbol is intended to alert the user of presence of uninsulated dangerous voltage within the products enclosure that may be of sufficient magnitude to constitute risk of electric shock to persons.



This symbol is intended to alert the user on the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

### Explication des symboles graphiques:



Ce symbole doit alerter l'utilisateur du danger provenant d'un voltage dangereux et non protégé à l'intérieur de l'appareil, voltage suffisamment fort pour représenter un danger réel d'électrocution.



Ce symbole doit attirer l'attention de l'utilisateur sur les instructions importantes qui concernent le service et la maintenance et qui accompagnent tout appareil.

### Erklärung der Bildsymbole:



Dieses Symbol warnt den Benutzer vor nicht isolierter gefährlicher Spannung im Inneren des Gerätes. Diese Spannung ist hoch genug um Personen durch elektrischen Schlag zu gefährden.

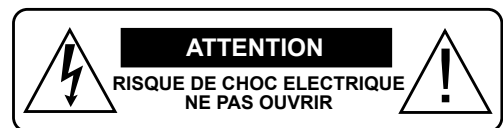


Dieses Symbol weist den Benutzer auf wichtige Bedienungs- und Wartungsanweisungen hin die in den gerätebegleitenden Unterlagen aufgeführt werden.



**CAUTION:** To reduce the risk of electric shock, do not open. No user-serviceable parts inside. Refer servicing to qualified personnel.

**WARNING:** To prevent fire or electric shock, do not expose this equipment to rain or moisture.



**ATTENTION:** Pour éviter les risques de choc électrique, ne pas ouvrir. Cet appareil ne comporte aucune pièce pouvant être réparée par l'utilisateur. Confier l'entretien à un technicien qualifié.

**AVERTISSEMENT:** Pour éviter les risques de choc électrique ou d'incendie, n'exposez cet appareil ni à l'humidité ni à l'eau (pluie...).



**ACHTUNG:** Um Gefährdung durch elektrischen Schlag zu vermeiden darf das Gerät nicht geöffnet werden. Es befinden sich keine vom Benutzer reparierbaren Teile im inneren des Gerätes. Jegliche Reparatur soll einem qualifizierten Fachmann überlassen werden.

**WARNUNG:** Um die Gefahr eines Feuers bzw. eine Verletzung durch elektrischen Schlag zu vermeiden sollte das Gerät niemals Regen oder Feuchtigkeit ausgesetzt werden.

**Note:** This equipment has been tested and found to comply with EN55103-1 and EN55103-2 product specifications. These product specifications are designed to provide a reasonable protection against harmful interference. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with instructions, can cause harmful interference. There is no guarantee that interference will not occur in a specific installation. If harmful interference is detected try and correct it by one of the following measures:

- Increase the separation between the equipment.
- Connect the equipment to different mains outlets.
- Reroute cables.

## 2. Safety Instructions

- All safety and operation instructions must be read before this unit is operated.
- The safety and operating instructions must be retained with the unit for future reference.
- All warnings on the appliance and in this operation manual must be strictly followed.
- This unit must not be used near water - for example, near bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, near a swimming pool, etc.
- This unit must be placed away from heat sources, such as radiators or other heat producing devices.
- The power supply cord must be routed so that it is not likely to be stepped on or pinched by objects placed on or against it.
- The power cord of the unit must be unplugged from the mains outlet if the unit is not used for a longer period.
- Care must be taken that objects do not fall and liquids are not spilled into the inside of the unit.
- Unplug the unit and demand servicing by qualified service personnel under any of the following conditions:
  - Objects have fallen, or liquid has been spilled into the unit;
  - The unit has been exposed to rain;
- The unit does not appear to operate normally or exhibits a marked change in performance;
- The unit has fallen, or its chassis got damaged;
- The power cord or power plug are damaged.
- The user must not attempt to service the unit beyond those means described in this operating manual. All other servicing must be referred to qualified personnel.
- To prevent electric shock do not use the polarised plug with an extension cord, receptacle or other mains outlet unless the prongs can be fully inserted to prevent contact exposure. This unit is equipped with a single pole disconnect device (fuse) in the phase (live) wire. If an unpolarised mains connection is used, the receptacle the unit is connected to must be equipped with a two pole disconnect device (fuse) of appropriate rating. The dust filter cover on the front of the unit forms an integral part of the electrical safety provisions. Do not use the unit without the dust filter cover in place!
- Precautions should be taken so that the grounding and mains polarisation means of the unit are not defeated.
- Slots and openings in the unit are provided for ventilation. To ensure reliable operation and to prevent overheating of the unit, these openings must not be blocked or covered!
- The fanguard on the front of the unit is an integral part of the safety provisions of the DPI amplifier. Make sure it is correctly mounted before connecting the unit to a mains outlet.

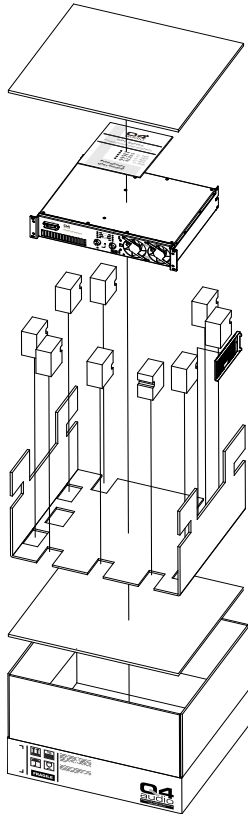
## 3. DPI series Features

DPI series power amplifiers feature:

- Switching class D output stage.
- Fully symmetrical, and floating modulator for unsurpassed accuracy and cross channel separation.
- Open input architecture for future expansion. The standard input module PIM-SIM1 provides inputs on Neutrik® Combo connectors or Phoenix screw terminals, parallel link outputs on XLR-3M for easy routing of multiple amplifiers and selectable high pass filters with 30 and 50Hz second order high pass filter characteristic.
- Instant recovery, eliminating stitching of the output when recovering from clipping or overload.
- EFL® (Extended Feedback Loop). This inovating technique makes it possible to take the feedback for the amplifier right from the loudspeaker terminals, offering unprecedented control of the loudspeaker, independent on loudspeaker cable length. The amplifier can be used as a conventional amplifier without this feature enabled, without any inconveniences.
- Defeatable clip limiter with selectable response time.
- Minimum sample frequency selection.
- Protection against over-dissipation, open or short circuit and HF or DC at the output.
- Outputs on touch proof Neutrik® Speakon connectors and high current Phoenix® screw terminals. Speakons have integral sensing inputs for the EFL circuit.
- Low flux toroidal power transformer with thermal sensing. The output power of the amplifiers is reduced in case of overheating.
- Extensive power line filtering for minimal interference.
- Soft start to minimise current surge on power on.
- A high efficiency cooling system. The power transistors are mounted directly onto the heatsink, eliminating the high thermal resistance of electrical insulators. This reduces component temperatures and extends the life of the power components.
- Temperature proportional speed fans for quiet operation.
- Front to back air flow.
- Easy to clean air filter on the front.

## 4. Setting up the amplifier

### 4.1 Unpacking the unit



DPI amplifiers are packed in a strong cardboard box that protects it during transport. In case you ever need to ship the amplifier again it is best to pack it using the original packaging materials. Therefore it is advised to save all packaging materials.

The packaging has been specially studied for low load to the environment. The individual packaging materials can be easily separated and recycled.

Please inspect the unit carefully for any signs of damage incurred during transport. This DPI amplifier has undergone stringent quality control inspection and tests at the factory. It left in perfect condition. If damage is found notify the transport company immediately.

It is important to immediately mount the fanguard that is included in the box. It is an integral part of the electrical safety provisions of the unit.



When repacking the unit, use the same packing arrangement as shown in the picture. Make sure to remove the fanguard. Place it on the side of the unit, between the two side buffers. This protects the fanguard during transport.

### 4.2 Attaching / removing the fancover



**Warning:** Before continuing the installation of the DPI amplifier, mount the fanguard on the front of the unit.

Place the two tabs of the fanguard in the corresponding holes on the right of the unit. Push the fanguard against the front panel and secure it by turning the 1/4 turn lock 90° clockwise.

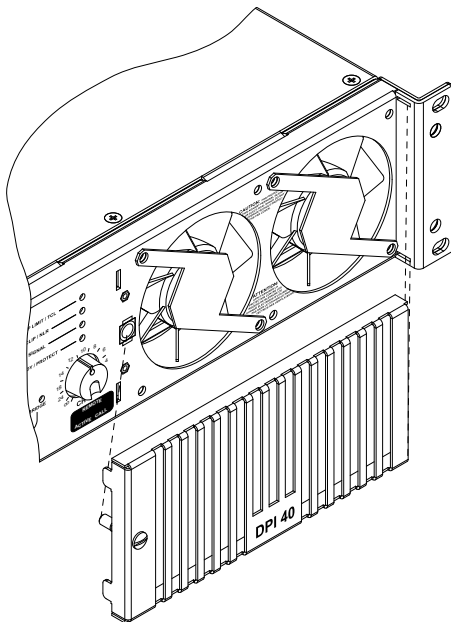
DPI series amplifiers are equipped with two cooling fans with front to rear airflow. When installing the amplifier, allow for ample space behind the amplifier to ensure sufficient airflow, especially if the amplifier is operated in a rack system. This avoids thermal limiting of the output power or, in severe situations even shut-off by the thermal protection system.

The fancover can be easily removed by turning the 1/4 turn lock 90° counterclockwise and pulling it off the frontpanel, left side first.

The standard air filter delivered with the amplifier is a black, 8mm thick reticulated polyurethane foam with a density of 20PPI. The filter can be easily cleaned by rinsing it with water. Let it dry thoroughly before mounting it back onto the amplifier.

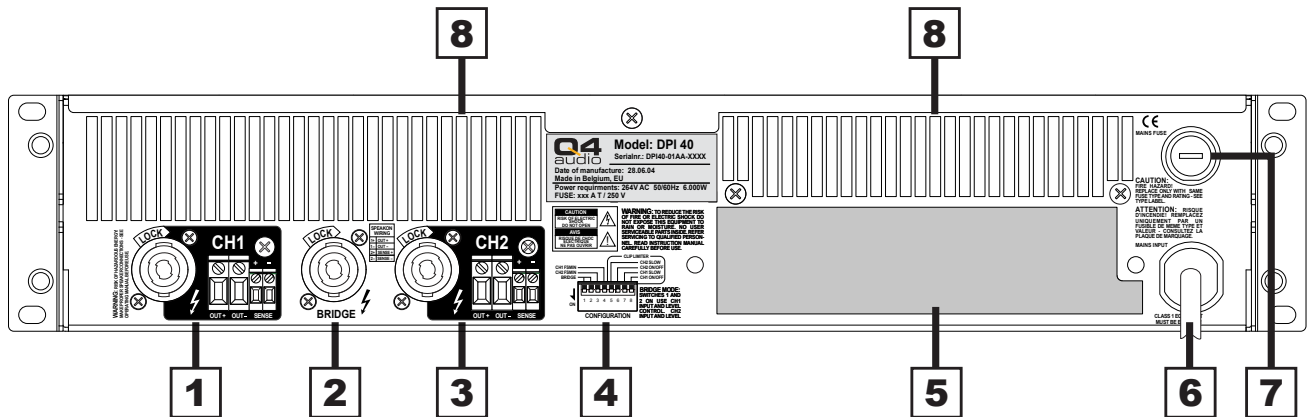
In case you need to replace the filter use only the prescribed material and thickness or contact your distributor for a replacement.

**Do not use the amplifier without the airfilter in place.** Regular cleaning of the filter eliminates dust buildup inside the unit.



## 5. Connecting the amplifier

### 5.1 Familiarisation with the rear panel



- 1 Channel 1 output is available on parallel wired Neutrik 4 pole Speakon and Phoenix screw terminal. Wiring of the Speakon is as follows:
  - 1+ = Channel output positive
  - 1- = Channel output negative (ground)
  - 2+ = Channel sense input positive
  - 2- = Channel sense input negative (ground sense)
- 2 Bridge output is available on Neutrik 4 pole Speakon. Another possibility to connect the bridge output is to use the Ch1 and Ch2 Phoenix OUT+ terminals. In this case Ch1 OUT+ is the positive output pole and Ch2 OUT+ the negative. Wiring is as follows:
  - 1+ = Bridge output positive
  - 1- = Bridge output negative
  - 2+ = Bridge sense input positive
  - 2- = Bridge sense input negative
- 3 Channel 2 output. For more information see Ch1 under point 1.
- 4 Configuration dipswitches.
- 5 Peripheral Input Module. DPI series is standard delivered with the PIM SIM1 analog input module. Do not operate the amplifier without the module in place. The PIM module can be easily exchanged for versions with more elaborate features.
- 6 Mains power cord.
- 7 Fuseholder. Replace fuse only with same fuse type and rating. This information is found on the type label, attached to the rear panel.
- 8 Ventilation slots. Never cover the ventilation slots. These ensure reliable operation and prevent overheating of the unit.

### 5.2 Configuration (dipswitch setting)

DPI series amplifiers are able to work in two main operational modes that can be selected by the dipswitches (4) on the back of the unit.

**DUAL** mode: in this mode both channels and their corresponding in- and outputs work totally independent from each other. This is the mode for normal stereo (two-channel) operation. In dual mode both switch 1 and 2 are in their UP position.

**BRIDGE** mode is activated by setting switches 1 and 2 in the ON (down) position. Bridge mode allows to use the amplifiers full output capacity for one single monaural channel. This configuration is recommended to produce high power output for a monaural speaker system, e.g. subwoofer. In addition to that, any DPI amplifier working in BRIDGE mode can be directly connected to an unisolated 100V (70V) constant voltage sound system.

**FSMIN selection:** DPI series amplifiers use a variable switching frequency modulator. As the output signal increases in amplitude, the switching frequency of the modulator goes

down. Ultimately the switching frequency goes to zero when the amplifier runs into the supply rails. To avoid this and to minimise stitching of the output signal after such event, the modulator continuously monitors the switching frequency and clips the modulator input signal in case the switching frequency drops below a predefined value. This value can be adjusted by the dipswitches 3 and 4 resp. for CH1 and CH2. Switch in the UP position corresponds to 35kHz. Switch in the down position to 70kHz. It is almost impossible to hear any difference between both settings. We advise the 70kHz position for critical listening. The output power will be a few percent lower when FSMIN 70kHz is enabled, compared to the 35kHz setting.

The **CLIP LIMITER** avoids gross clipping of the output signal in case the FSMIN clipper is activated. Gain is automatically reduced if the limiter is activated by putting switches 6 (CH2) and 8 (CH1) in the ON (down) position. Attack and release times can be adjusted with switches 5 (CH2) and 7 (CH1). Reaction of the limiter circuit is slowed down by putting these switches in their ON (down) position.

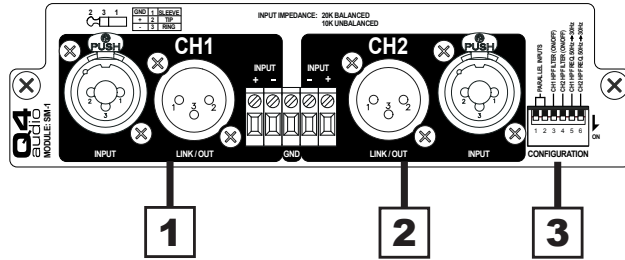
### 5.3 Connections

All input and output sockets are on the rear panel of the amplifier. The rear panel also holds the mains cord (8) and the fuse holder (9). For maximum safety, it is recommended to stick to the order given below when wiring the PA system.

#### 5.3.1 Input connections

The DPI series amplifiers have an open input architecture for future expansion. Standard, the amplifier is equipped with the PIM-SIM1 module.

#### 5.3.2 PIM-SIM1 module



1. Channel 1 input sockets are mixed XLR/phone jack receptacles, which allow the use of microphone or instrument cables to connect the amplifier. Whenever possible, use 2-conductor shielded cable for a balanced signal transmission. This gives the best results and the lowest noise. The inputs are wired in standard configuration with pin 1 as ground, pin 2 as signal "hot" and pin 3 as signal "cold". Refer to the input wiring diagram on the amplifier's back panel. Each input XLR/Phone jack is parallel wired to a Phoenix screw terminal for easy connections as well as to a 'Direct Out' male XLR socket to provide easy linking to other amplifiers.
2. Channel 2 input. See Ch1 information under point 1.

3. Configuration dipswitches for parallel mode and high pass filter.

Switches 1 and 2 make it possible to parallel CH1 and CH2 inputs. Put switches in the ON (down) position to wire CH1 and CH2 inputs in parallel. Use CH1 or CH2 input. The output levels can be adjusted individually by means of the corresponding level controls.



**Warning: this mode does not mean that the outputs of both channels can be wired in parallel. Never attempt to wire them together! This can damage the amplifier.**

Switch 3 makes it possible to insert a 50Hz second order high pass filter into CH1 signal path. Put the switch in the ON (down) position to activate the filter.

Switch 4 controls CH1 high pass filter frequency. With the switch in the up position the cutoff frequency is 50Hz. The down position changes this to 30Hz.

Switch 5 controls CH2 high pass filter mode and switch 6 controls CH2 high pass filter cutoff frequency. Functioning is the same as for CH1.

#### 5.3.3 Speaker connections

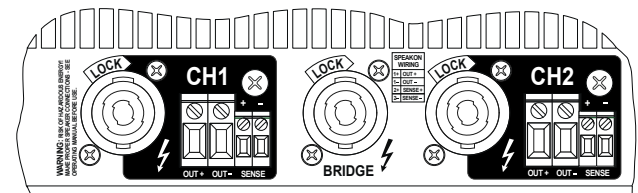
Warning: All DPI series amplifiers are capable of producing dangerously high voltages at the output terminals! To avoid cable overheating, do not use speaker cables under 1.5 mm<sup>2</sup> cross-section (AWG 15). The use of thicker cables helps to keep power loss down and damping high, especially if long distances have to be bridged. After insertion, twist each speakon connector clockwise until latching or lock it with the swivell nut to ensure proper contact.

**DUAL** mode: use the SPEAKER OUT 1 and 2 outputs to connect the speaker systems. Minimum total speaker impedance per channel is 2 Ohms.

**BRIDGE** mode: BRIDGED OUT speaker connection is done by using standard Speakon cables. Minimum total speaker impedance is 4 Ohms.

#### Pin configurations

The pin configurations for the three speaker connectors are printed on the amplifier's back panel. Before connecting the speakers, make sure that your speaker cables are properly wired.



#### EFL® (Extended Feedback Loop).

This inovating feature makes it possible to take the feedback for the amplifier right from the loudspeaker terminals, offering unprecedented control of the loudspeaker, independent on loudspeaker cable length. The amplifier can be used as a conventional amplifier without this feature enabled, without any inconveniences by simply not connecting the sense terminals. In this case feedback is taken right at the speaker output terminals, compensating any internal wiring, yielding very high low output impedance.



**The sense inputs give access to highly sensitive electronic components inside the unit. Although the amplifier is protected against miswiring of the sense inputs, these components are not resistant to continuous fault situations.**



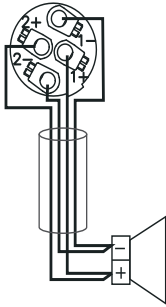
In case the sense inputs are not used leave them unconnected. The amplifier will then function as a conventional amplifier.

Extra care is needed in case of 4 core cables to make sure the sense wires are not connected.

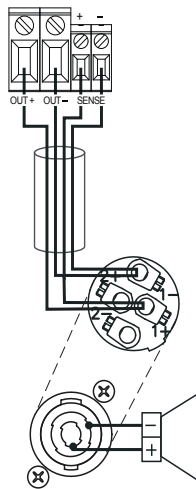
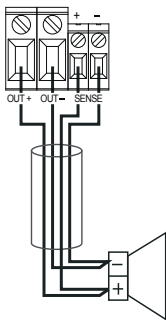
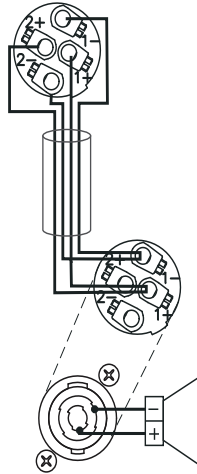
In case the sense inputs are used, try the connection with a low level signal at the output. If the channel goes into protect mode check the wiring for accordance with the figures below. Continuous operation into a faulty wiring can

Output cabling for dual (stereo) / parallel (mono) mode:

Preferred



Second option



### 5.3.4 Mains connection

For mains connection, use only three-prong mains connectors with earth contact. Switching the amplifier to different voltage systems is done from the inside and should only be performed by a qualified technician.

The mains cable conductors have the following color code:

- YELLOW/GREEN = earth (PE)
- BROWN = live (L)
- BLUE = neutral (N)

## 6. Operation

Each channel is controlled from the front panel by a level control potentiometer and 4 status LED's. The status LED's indicate the following operational states of the amplifier:

**READY/PROTECT:** two-coloured LED indicates whether or not the channel is ready to operate. Lights up green when the amplifier is working normally, and turns red whenever there is a malfunction, e.g. DC voltage at the output, output stage defect, or heatsink temperature exceeding 90°C. After turning the amplifier on, this LED will remain red for about 2 seconds until the internal supply voltages have set to their normal values.

**SIGNAL:** indicates signal presence at the channel's output. Threshold level is +10 dBV.

**VOLT CLIP / LIMIT:** lights when the amplifier has reached the minimum switching frequency. This is equivalent to clipping in a normal power amplifier. In case the internal clip limiter is activated, the gain will be automatically reduced to prevent the occurrence of gross nonlinearity conditions inside the amplifier.

The clip limiter keeps signal distortion under 5% and thus guarantees a clean sound and effective speaker protection.

**TCL (Temperature Controlled Limiting):** indicates signal limiting as a result of heat sink over temperature (above 85°C). This helps to prevent the triggering of the internal thermal shut-off circuit, which would step in at 90°C heat sink temperature as a final safeguarding measure.

The temp limit only becomes active when the regular cooling mechanism fails to work properly, e.g. by a dirty air filter, obstructed air-flow...

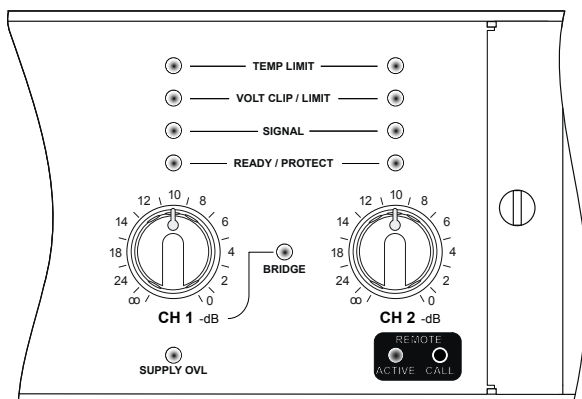
A lit TCL LED should always be taken as a sign to check the air filter and to assure sufficient cooling air supply.

Further 3 leds give operational information of the unit:

**BRIDGE:** Indicates the amplifier is configured for bridge mode operation. Use CH1 level control as indicated.

**SUPPLY OVL:** Indicates a power supply overload. If this LED is lit, gain of both channels is decreased simultaneously to avoid overheating of the unit's power transformer.

**REMOTE:** Both the 'ACTIVE' LED as the CALL button are functions which require an optional remote module to be inserted at the back of the unit. Further explanation of the functions will accompany the remote module. This function is not available with the PIM-SIM1 standard input module.



## 7. Grounding

For maximum performance we recommend the use of two conductor shielded cable for making input connections. Because the shield does not carry audio signal, interference between signal current and audio current is minimised in this way. While wiring up your system take following important points into consideration:

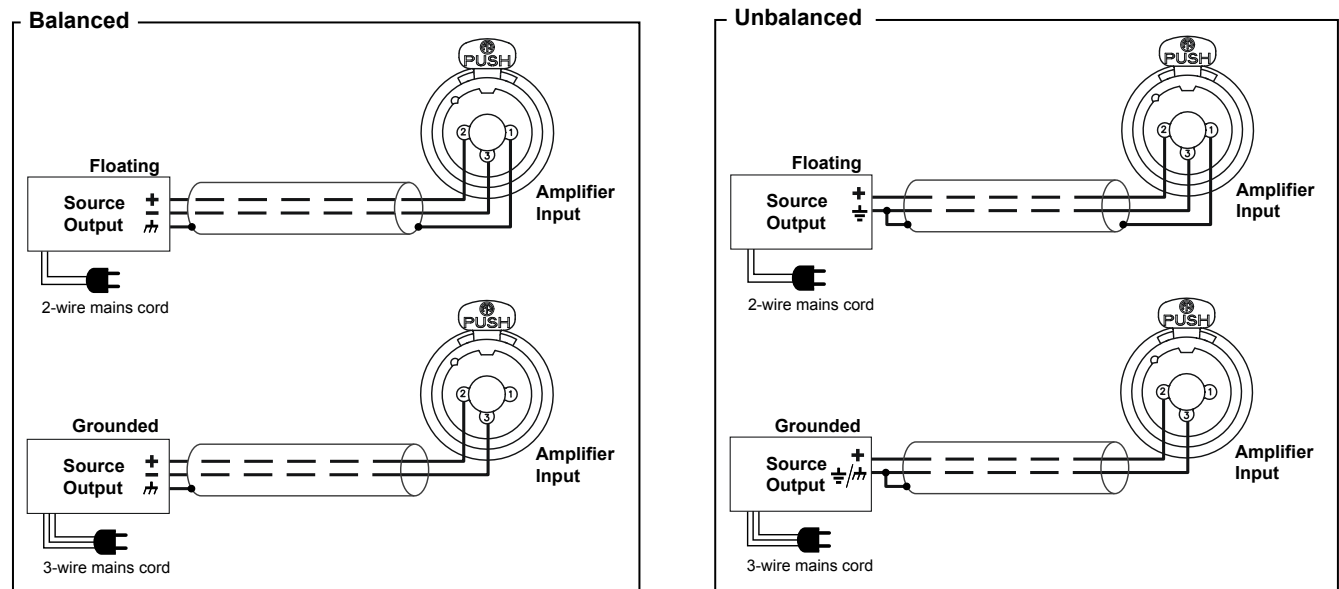
1. Never use a ground lift adapter on the mains feed. The isolation system of this product takes into account that the chassis is connected to earth at all times. This product will become unsafe if the chassis is disconnected from earth.

2. Most installations use a mix of balanced and unbalanced connections with a variety of equipment being connected. In case you experience a hum or buzz problem, do not be afraid to experiment.

Pin 1 of the input connectors (and direct out connectors) is connected to chassis ground. In a perfect world it would be possible to simply connect the sleeves of the signal cables to pin 1 at both ends of the cable. This would in effect make the cable screen an extension of the chassis between the two interconnected pieces of equipment and provide for perfect LF and HF screening of the audio signals.

Problem however is that some equipment use badly organised internal grounding and will generate hum and buzz because of earth currents flowing through the internal signal ground. In such case it is necessary to stop the earth currents from flowing by disconnecting pin 1 from the sleeve.

Use the figures below as a guidance to solve problems with hum or buzz.

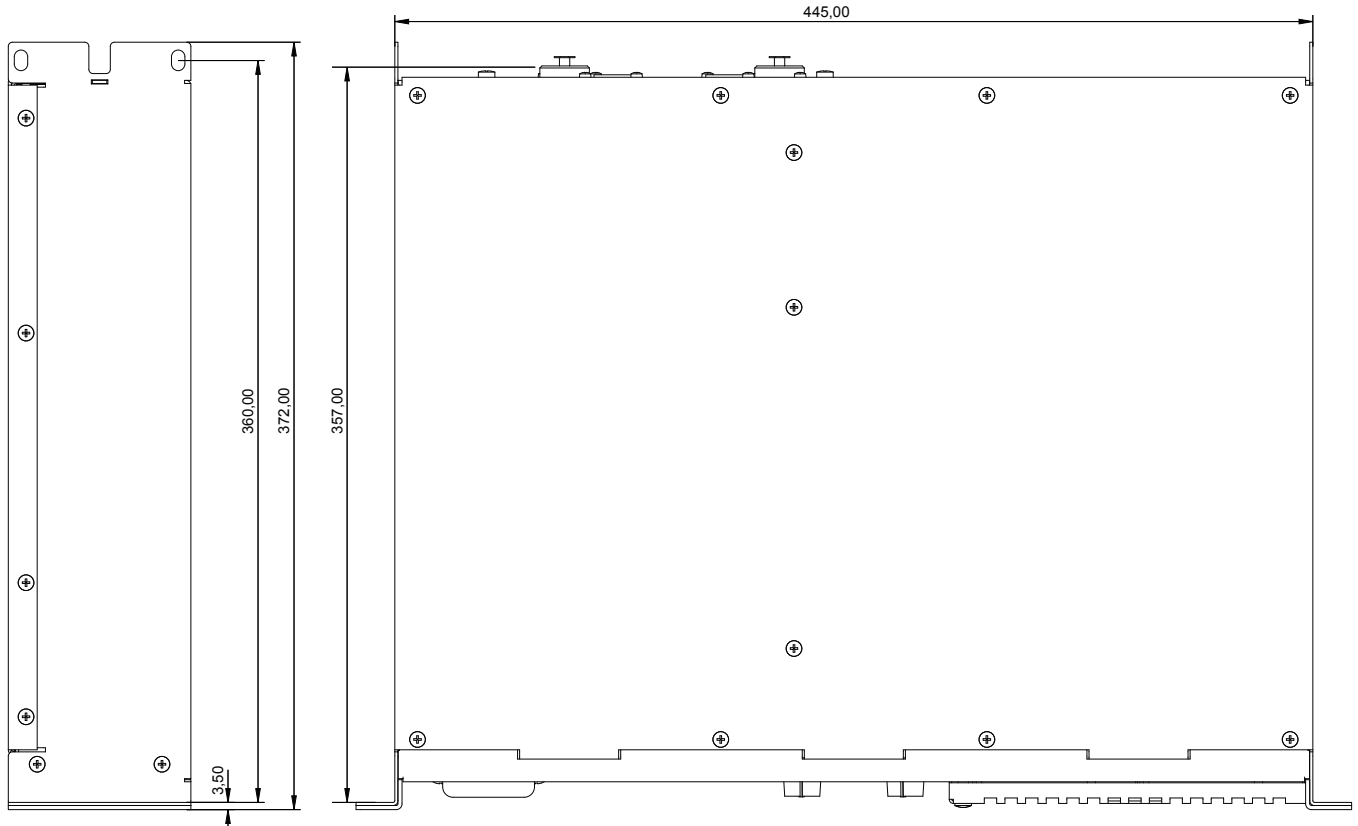
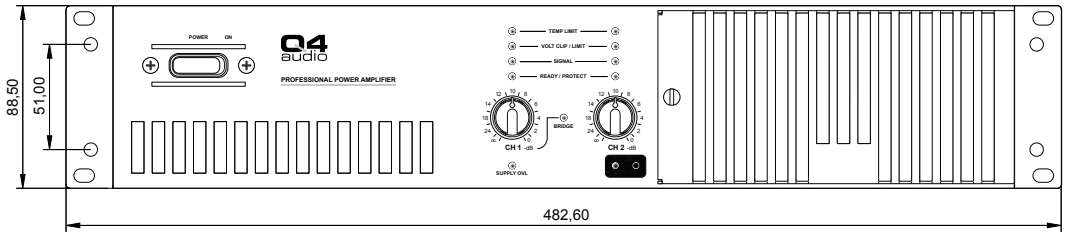
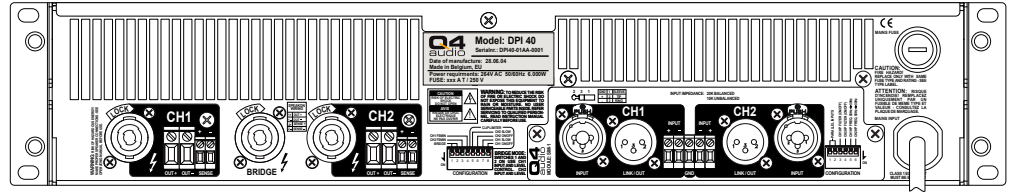


## 8. Specifications

Model	DPI10	DPI15	DPI20	DPI30	DPI40
<b>Min. output power per channel into 2 ohms</b> 1 kHz sine wave, THD < 1%, both channels driven	500 W	900 W	1200 W	1600 W	2200 W
<b>Min. output power per channel into 4 ohms</b> 1 kHz sine wave, THD < 1%, both channels driven	300 W	500 W	800 W	1100 W	1500 W
<b>Min. output power per channel into 8 ohms</b> 1 kHz sine wave, THD < 1%, both channels driven	200 W	330 W	450 W	600 W	800 W
<b>Min. output power in bridge mode into 4 ohms</b> 1 kHz sine wave, THD < 1%	1000 W	1800W	2400 W	3200 W	4400 W
<b>Min. output power in bridge mode into 8 ohms</b> 1 kHz sine wave, THD < 1%	600 W	1000 W	1600 W	2200 W	3000 W
<b>Typical THD+N</b> 1 KHz -3dB output power			< 0.02 %		
<b>SMPTE intermodulation distortion</b> 60 Hz - 7 KHz 4:1 at -3dB output power			< 0.05 %		
<b>Dynamic intermodulation distortion</b> 30 KHz bandwidth at -3dB output power			< 0.05 %		
<b>Frequency range</b> 20 Hz - 20 kHz at nom. output power			+ 0 dB / - 0.8 dB		
<b>Small Signal Frequency response</b> -3dB; Load impedance 2 - 16 Ohms			5 Hz - 50 kHz		
<b>Large Signal Bandwidth</b>			35 kHz		
<b>Rise time</b>			< 10 $\mu$ s		
<b>Damping factor</b> 1 KHz referred to 8 ohms			> 3000 (EFL used)		
<b>Voltage gain</b> Level controls full cw			+36 dB		
<b>Noise interference</b> 22 Hz - 22 KHz rms A weighted, referred to nom. output power			< -105 dB		
<b>Crosstalk</b> 1 KHz / 8 ohms			< -70 dB		
<b>Input CMRR</b> 100 Hz			> 80 dB		
<b>Output DC offset voltage</b>			< $\pm$ 25 mV		
<b>Input impedance</b>	10 Kohms unbalanced / 20 Kohms balanced				
<b>Input connectors</b>	1/4" phone jack / XLR compound receptacle, parallel XLR male paralleled Phoenix® screw terminals				
<b>Output connectors</b>	1 x 4-pole Speakon per channel / 1 x 4-pole Speakon for bridge paralleled Phoenix® 4 mm <sup>2</sup> screw terminals				
<b>Cooling</b>	Forced cooling with 2 vari-speed fans / front to rear airflow				
<b>Mains supply</b>	115 V / 230 V $\pm$ 10% AC 50/60 Hz				
<b>Dimensions</b>	Width: 482 mm, Height: 88.9 mm, Depth: 350 mm (mounting base to connector panel)				
<b>Net weight</b>	13.5 kg	15 kg	16 kg	18 kg	20 kg
<b>Shipping weight</b>	16.3 kg	18 kg	19 kg	21 kg	23 kg
<b>Standards</b>	Safety: EN60065 EMC: EN55103-1/EN55103/2/E2/E3				

**Note: Distortion measurements with AES-17 low pass filter.**

9. Dimensions



## **10. Warranty**

### **SUMMARY**

The Q4AUDIO division of Summit Engineering nv Tongersesteenweg 190 3800 Sint-Truiden Belgium, the creators and manufacturers of the Q4AUDIO product line warrants to you, the original purchaser and any subsequent owner of this Q4AUDIO product, for a period of 2 (two) years (warranty period) from the date of purchase by the original purchaser that the product is free of defects in components and factory workmanship. The date of purchase is the date appearing on the first end-user's sales receipt or other proof of original purchase from an authorised Q4AUDIO dealer.

### **ITEMS EXCLUDED FROM WARRANTY**

This Q4AUDIO warranty does not cover product failure caused by misuse, accident or neglect. Nor shall it be applicable to any product on which the serial number has been defaced, altered or removed. This warranty shall be considered void if this product is subjected to repair work or alteration by persons other than authorised by Q4AUDIO in such a manner as to injure, in the sole judgment of Q4AUDIO, the performance, stability, reliability or safety of this product. This warranty does not apply to finish or appearance items. This warranty is in effect only during the warranty period.

### **OUR COMMITMENT**

During the warranty period, Q4AUDIO will remedy any defect (except as excluded) by repair or at its option replacement or refund. In case of refund the defective or malfunctioning product shall be made available to us free and clear of all lies or other encumbrances. The refund will be equal to the original purchase price less a reasonable depreciation of 10% per year from the date of purchase. The refund will not include interests, insurance, closing costs, loss of profit or other financial costs that may be the result of the product's defect.

### **OBTAINING WARRANTY SERVICE**

You must notify us of your need for warranty service, preferably by filling out the service request form in this manual and returning it to us. We will give you notice of the authorised service center to whom you may deliver the product or we will give you an authorisation to return it to the factory. All components must be shipped in a factory pack, shipping prepaid. Repairs and replacement parts provided under the terms of this warranty shall carry only the unexpired portion of this warranty.

### **DISCLAIMER**

Q4AUDIO is not liable for any damage to other products such as speakers, amplifiers or any other equipment that is caused by using this Q4AUDIO product.

### **PRODUCT CHANGES**

We reserve the right to change the design on any product without prior notice and with no obligation to make corresponding changes in products previously manufactured.

Summit Engineering nv  
Q4AUDIO division  
Tongersesteenweg 190  
3800 Sint-Truiden  
Belgium  
tel: +32 11 69.42.59  
fax: +32 11 69.45.92  
www.Q4audio.com  
email: ebergers@summit-eng.be

## Service request form

### Owner information

Name/Company: .....  
Shipping address: .....  
.....  
Country: .....  
Tel: .....  
Fax: .....

### Product information

Product: .....  
Serial number: .....  
Purchased from: .....  
Purchase date:.....

### Problem description

**Be sure to explain the circumstances under which the problem occurred!**

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### Attempts to solve the problem

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**Send this service request form together with the unit (do not send separately!) to your authorised Q4audio dealer, or to following address:**

**Summit Engineering NV**  
**Q4audio division**  
Tongersesteenweg 190  
3800 Sint-Truiden Belgium  
Tel: +32 (0)11 69 42 59  
Fax: +32 (0)11 69 45 92  
Email: service@Q4audio.com