

Important Safety Instructions



This unit has been engineered and manufactured to ensure your personal safety. But IMPROPER USE CAN RESULT IN POTENTIAL ELECTRICAL SHOCK OR FIRE HAZARD.

In order not to defeat the safeguards incorporated into this product, observe the following basic rules for its installation, use and service. Please read these "Important Safeguards" carefully before use.

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this equipment near water.
- Clean only with a dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus that produce heat.
- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- The apparatus shall be connected to a MAINS socket outlet with a protective earthing connection
- Where the MAINS plug or an appropriate coupler is used as the disconnect device, the disconnect device shall remain readily operable.



THE MANUFACTURER CANNOT BE HELD RESPONSIBLE FOR DAMAGES CAUSED TO PERSONS, THINGS OR DATA DUE TO AN IMPROPER OR MISSING GROUND CONNECTION.

CONTACT THE AUTHORIZED SERVICE CENTER FOR ORDINARY AND EXTRAORDINARY MAINTENANCE.

IT IS ABSOLUTELY NECESSARY TO VERIFY THESE FUNDAMENTAL REQUIREMENTS OF SAFETY AND, IN CASE OF DOUBT, REQUIRE AN ACCURATE CHECK BY QUALIFIED PERSONNEL.

©2018 Void Acoustics Research Ltd.

Version 1.0

This user guide is subject to change without notice.
For the latest online version, visit: www.voidacoustics.com

Void Acoustics and the Void logo are registered trademarks of Void Acoustics Research Ltd. in the United Kingdom, USA and other countries; all other Void trademarks are the property of Void Acoustics Research Ltd.



THE TRIANGLE WITH THE LIGHTNING BOLT IS USED TO ALERT THE USER TO THE RISK OF ELECTRIC SHOCK.



THE TRIANGLE WITH THE EXCLAMATION POINT IS USED TO ALERT THE USER TO IMPORTANT OPERATING OR MAINTENANCE INSTRUCTIONS.



THE CE-MARK INDICATES THE COMPLIANCE WITH THE LOW VOLTAGE AND ELECTROMAGNETIC COMPATIBILITY.



SYMBOL FOR EARTH/GROUND CONNECTION.



SYMBOL INDICATING THAT THE EQUIPMENT IS FOR INDOOR USE ONLY.



SYMBOL FOR CONFORMITY WITH DIRECTIVE 2012/19/EC OF THE EUROPEAN PARLIAMENT ON WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT (WEEE).



DO NOT USE THE UNIT AT ALTITUDES ABOVE 2000 M.



DO NOT USE THE UNIT IN TROPICAL ENVIRONMENT.



WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT ATTEMPT TO OPEN ANY PART OF THE UNIT. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



CONNECTION TO THE MAINS SHALL BE DONE ONLY BY A ELECTROTECHNICAL SKILLED PERSON ACCORDING THE NATIONAL REQUIREMENTS OF THE COUNTRIES WHERE THE UNIT IS SOLD.



DO NOT USE THIS AMPLIFIER IF THE ELECTRICAL POWER CORD IS FRAYED OR BROKEN.



TO AVOID ELECTRICAL SHOCK, DO NOT TOUCH ANY EXPOSED SPEAKER WIRING WHILE THE AMPLIFIER IS OPERATING.



DO NOT SPILL WATER OR OTHER LIQUIDS INTO OR ON THE AMPLIFIER.



NO NAKED FLAME SOURCES SUCH AS LIGHTED CANDLES SHOULD BE PLACED ON THE AMPLIFIER.



WARNING TO PREVENT INJURY, THIS APPARATUS MUST BE SECURELY ATTACHED TO THE FLOOR/WALL IN ACCORDANCE WITH THE INSTALLATION INSTRUCTIONS.



THIS DEVICE MUST BE POWERED EXCLUSIVELY BY EARTH CONNECTED MAINS SOCKETS IN ELECTRICAL NETWORKS COMPLIANT TO THE IEC 364 OR SIMILAR RULES



DISCONNECT THE AC MAINS SOURCE BEFORE ATTEMPTING TO CLEAN ANY PART OF THE AMPLIFIER



VOID SUGGESTS TO PLUG THE BIAS D1 TO A 16 A RATING, C OR D CURVE, 10 KA SECTIONING BREAKER.



IT IS HIGHLY RECOMMENDED TO UNPLUG THE OUTPUT CONNECTORS BEFORE PROCEEDING WITH THE SELF CHECK PROCEDURE



THE TESTING SIGNALS MIGHT CAUSE LOUDSPEAKER IMPAIRMENTS.



OUTPUT TERMINALS ARE HAZARDOUS: WIRING CONNECTION TO THESE TERMINALS REQUIRES INSTALLATION BY AN INSTRUCTED PERSON AND THE USE OF READY MADE LEADS.



PROPERLY FIT THE AC MAINS PLUG TO THE AMPLIFIER INLET. BEFORE POWERING THIS AMPLIFIER, VERIFY THAT THE CORRECT VOLTAGE RATING IS BEING USED.



VERIFY THAT YOUR MAINS CONNECTION IS CAPABLE OF SATISFYING THE POWER RATINGS OF THE DEVICE.



TAKE CARE TO LOCK THE OUTPUT TERMINAL BEFORE SWITCHING THE DEVICE ON.

WEEE Directive

If the time arises to throw away your product, please recycle all possible component.



This symbol indicates that when the end-user wishes to discard this product, it must be sent to separate collection facilities for recovery and recycling. By separating this product from other household-type waste, the volume of waste sent to incinerators or land-fills will be reduced and natural resources will thus be conserved.

The Waste Electrical and Electronic Equipment Directive (WEEE Directive) aims to minimise the impact of electrical and electronic goods on the environment. Void Acoustics comply with the Directive 2012/19/EU of the European Parliament on waste electrical and electronic equipment (WEEE) in order to reduce the amount of WEEE that is being disposed of in land-fill site.

All of our products are marked with the WEEE symbol; this indicates that this product must NOT be disposed of with other waste. Instead it is the user's responsibility to dispose of their waste electrical and electronic equipment by handing it over to an approved reprocessor, or by returning it to Void Acoustics for reprocessing. For more information about where you can send your waste equipment for recycling, please contact Void Acoustics or one of your local distributors.

EC Declaration Of Conformity

Manufacturer:

Void Acoustics Research Ltd.,
Unit 15 Dawkins Road Ind Est.,
Poole,
Dorset,
BH15 4JY
United Kingdom



We declare that under our sole responsibility the products:
Model Names: Bias D1, Bias Q1, Bias Q2

Intended use: Professional Audio Amplifier

Are in conformity with the provisions of the following EC Directives, including all amendments, and with national legislation implementing these directives:

- 2014/35/EU Low Voltage Directive
- 2014/30/EU Electromagnetic Compatibility Directive
- 2011/65/EU RoHs Directive
- 2014/53/EU Radio Equipment Directive

The following harmonized standards are applied:

- EN 55103-1: 2009 /A1: 2012
- EN 55103-2: 2009 /IS: 2012
- EN 55032: 2012
- EN 55035: 2017
- EN 60065: 2014 /AC: 2016

July 2017

For compliance questions only: info@voidacoustics.com

In an effort to reduce the quantity of printed material while enhancing the quality of content, we have decided to adopt a new approach for the production of this quick guide.

All vital informations have been condensed in two pages, and all illustrations and tables are now found in the newly implemented fold out cover.

Colored bars are there to guide you to the right section of the amplifier: 

White numbers are there to guide you to specific elements of the section: 

All warnings and safety instructions are now located on the first page of each language, please do take the time to read these.

Preliminary operations

Package list

The box contains the following:

1x Bias D1 Series amplifier.
1x Phoenix MC 1,5/4-ST-3,81 - 1803594 plug
2x Phoenix MC 1,5/6-ST-3,81 - 5447900 plug
1x Phoenix PC 5/4-STF1-7,62 - 1777859 plug
1x IEC power cord
1x quick guide

OR

1x Bias Q1/Q2 amplifier.
1x Phoenix MC 1,5/4-ST-3,81 - 1803594 plug
2x Phoenix MC 1,5/12-ST-3,81 - 1803675 plug
1x Phoenix PC 5/8-STF1-7,62 - 1777891 plug
1x IEC power cord
1x quick guide

Location

Install your Bias D1/Q1/Q2 Amplifier in well ventilated rack cabinets.
Secure both front and rear brackets to the rack.
Connect the AC Mains connector to a circuit breaker.
Install the amplifier far from EMF emitting devices.
Avoid placing the amplifier close to heat generating sources.

Cooling

The ventilation openings must not be impeded by any item, keep a distance of at least 50 cm from the front and rear ventilation openings of the amplifier.

Bias D1/Q1/Q2 implements a forced-air cooling system to maintain constant operating temperatures. Air enters from the front panel, exiting at the back of the amplifier.

The cooling system features variable-speed DC fans controlled by the heat sink mounted sensors. This ensures that fan noise and internal dust accumulation are kept to a minimum.

In the rare event of overheating, sensing circuits shut down all channels until the amplifier cools down to a safe operating temperature. Normal operation is resumed automatically without the need for user intervention.

Bias D1/Q1/Q2 amplifiers can be stacked one on top of the other, leave one rack unit empty every four to guarantee adequate air flow.

Cleaning

Use a dry cloth for cleaning the chassis and the front panel. Air filter cleaning should be scheduled in accordance with the dust levels in the amplifier's operating environment.

In order to clean the vent filters remove the front cover by firmly gripping the outermost silver panels and pull them outwards
Use compressed air to remove the dust from filters, or wash it with clean water (let the filter dry thoroughly before reinstalling them).

AC Mains Supply

Bias D1/Q1/Q2 amplifiers implement an universal switching mode power supply with power factor correction operating in the range from 100 V_{AC} up to 240 V_{AC} ±10%.
AC mains connection is in the rear panel through the IEC C20 inlet, the approved power cord is provided.

Switching the amplifier On and Off

Once properly powered (power cord inserted, sectioning breaker closed), the system can be either ON or in STANDBY mode depending on its state at latest power off.

In order to toggle the amplifier between ON and STANDBY keep pressed the power button for 3 seconds. Please consider that the operating condition can be modified by the REMOTE ON and REMOTE OFF configuration.

Energy Save

The Smart Rails Management technology implemented in the power supply unit allows to reduce the power consumption when the input signal falls under a defined threshold.

When On, Energy Save is active on each channel independently.

If the signal is missing for more than 30 minutes on all channels, the auto standby is applied and the main PSU is turned off to further save energy (Time out time is selectable via Armonia in DSP+D Versions). Normal operation is resumed in a matter of milliseconds when an incoming signal is detected.

In order to activate the Energy Save feature, operate the NRG SAVE dip switch on the rear panel.

Breaker Save

This feature may be activated when the power grid is unable to provide enough current to continuously drive the loads, or when the number of amplifier connected to the same outlet is such that one can reach the critical power absorption of the line.

When activated, the Breaker Save halves the maximum continuous current absorption from the mains. This slightly reflects on the overall performance of the system, reducing the available output power.
In order to activate the Breaker Save feature, locate the BRK SAVE switch on the rear panel.

Remote On/Off

Remote ON/OFF is available through the dedicated terminals on the rear panel.

Both terminals respond to the differential voltage between the contacts: a voltage difference in the range 5 V_{DC} - 24 V_{DC} triggers the control. Any voltage exceeding 28 V_{DC} may damage the input circuitry.

The couple of terminals act depending on the actual state of the amplifier, in accordance with the following table.

REMOTE ON	REMOTE OFF	AMPLIFIER STATE
Vdiff ≥ 5 V	Any	Force Turn ON
Vdiff < 3 V	Vdiff ≥ 5 V	Force Turn OFF
Vdiff < 3 V	Vdiff < 3 V	No Change (Keep either standby or in current state)

Gain selection

The Bias D1/Q1/Q2 amplifiers can operate with different gain applied to the input signal. This feature is designed to match the voltage of the input signal.

A proper combination of the position of two GAIN switches on the rear panel sets the operating gain of the amplifier

Connections

Signal Grounding

There is no ground switch or terminal on the Bias D1/Q1/Q2 Series amplifiers. The unit's signal grounding system is automatic. In order to limit hum and/or interference entering the signal path, use balanced input connections.

In the interests of safety, the unit MUST always operate with electrical safety earth connected to the chassis via the dedicated Protective Earth ⚡ wire.

Analog Audio Input connections

Analog input connections are made via the Phoenix MC 1,5/6-ST-3,81 5447900 connector.

Remote Level adjustment

The level of each channel can be remotely adjusted by means of a linear 10 kΩ potentiometer connected to the input LEVEL connector.

When the CH1 MSTR switch is in the OFF position the remote level potentiometers work independently on each separate channel.

When the CH1 MSTR switch is in the ON position the remote level potentiometer of channel 1 acts as a master level, controlling the volume of both channels.

The remote level controls are in series with the level adjustment knobs in the front panel.

Digital Audio Input connection

Dante™ enabled models accept two input streams from the Dante™ connection through the Dante™ port. Cabling must comply to TIA/EIA-568-B and adopt the T568B scheme pinout.

In order to implement a Dante™ network, a computer running Dante™ Controller have to be used. Dante™ Controller is a software application that manages devices on the network. Bias D1/Q1/Q2 DSP+D amplifiers are automatically discovered and displayed in Dante™ Controller with the default identifier:

MODELNAME-SERIAL (e.g. BiasD1-71520).

Ethernet connection

The port labelled Ethernet is designed to remotely control the amplifier via an Ethernet connection through a personal computer and Powersoft Armonia Pro Audio Suite software.

Void recommend the use of Ethernet Cat5 straight through – patch – cables with pin/pair assignments TIA/EIA-568-B, i.e. T568B.

Output connections

Output connections are made via the Phoenix PC 5/4-STF1-7,62 1777859 port.

Any mixed configuration of low and high impedance output loads can be made: in order to set the load configuration, each channel is provided with four DIP switches.

Hi-Z 70V/100V operations

Any channel can drive 70V/100V (Hi-Z) distributed line loudspeakers. In order to connect any channel's output to a 70V/100V line, the rear panel DIP switch corresponding to the channel must be set.

Void recommends to use the built-in HPF (High Pass Filter) when the amplifier is set to drive a distributed line to prevent loudspeaker transformer saturation, which can considerably degrade sound performance. The HPF can be activated by means of the DIP switch corresponding to the channel, two cutting frequency are available 35 Hz and 70 Hz.

Lo-Z 2 Ω load operation

Bias D1/Q1/Q2 amplifiers are optimized for working with 4Ω output loads but a special configuration allows to connect low loads down to 2 Ω.

The 2 Ω switch allows to activate on all output channels set to match low impedance (i.e. in Lo-Z configuration) an operating condition that optimizes the performance with very low loads, by limiting the maximum output voltage to 85 V_{peak} per channel.

For optimal 2 Ω performance, it is recommended to select LowZ mode for all the amplifier's channels.

Diagnostics - GPO - Alarms

Bias D1/Q1/Q2 provides a pair of paralleled general purpose output connections per channel: one Normally Open ⊕ NO and one Normally Closed ⊗ NC.

The connections are available on the back panel via the 6-pin Phoenix MC 1.5/6-ST-3.81 5447900 connector.

These contacts are used to report potentially dangerous faults or generally unsafe operation conditions by toggling alarm switches relative to the following events, and any fault preventing the normal operation of an output channel:

No AC mains (i.e. system shutdown);

Thermal stress: the system temperature is too high and the thermal protection is engaged;

Short circuit in output wiring: either the loudspeaker or the line is in short;

Amplifier is in Standby

DSP+D versions feature further monitoring on pilot tone and output load through Armonia Pro Audio Suite.

Self Check

The self check procedure tests the amplifier status and reports the user in case of failures.

After few minutes, at the end of the self check procedure, a combination of lit LED in the LED panel provides information about the amplifier status.

In order to exit the self check test and resume normal operations, press once the self check push button ⑥.

If self check cannot be started because of a fault, the check LED will blink fast, whilst a reassuring slow blink is an indication of a completed self check procedure.

Pilot Tone monitoring

The detection of a mismatch in the input pilot tone parameters (frequency and voltage level) can be used to trigger the backup policy and activate an alert through the general purpose output switch.

The output pilot tone detection relies on an external signal passing through the amplifier or the internal post DSP pilot tone generator; in both cases any mismatch between the detected signal and the set thresholds triggers the general purpose output switches.

Networking

Bias D1/Q1/Q2 amplifiers support star network topology via the Ethernet port and Dante™ networking via the Dante™ port.

IP Addressing

Factory default network settings are DHCP/AutoIP.

In order for the amplifier to self-configure when connected to an existing LAN or PC. Fixed IP policy can also be adopted and configured through Armonia Pro Audio Suite.

If a DHCP server is not active within the network, the amplifier platform initiates a stateless address auto-configuration (i.e. Zero-configuration networking methodology – Zeroconf): it self assigns a local numeric network address (of the type 169.254.x.y – 172.31.*.* for the secondary network if present – with a subnet mask 255.255.0.0) and automatically distributes and resolves the host names of the networking devices.

Both Armonia and the Bias D1/Q1/Q2 must belong to the same subnet. If a DHCP server is present on the network and a Bias D1/Q1/Q2 amplifier is in AUTO IP, networking may become unstable.

As a rule of thumb, turn the DHCP server on before connecting the amplifiers.

IP addressing of a Bias D1/Q1/Q2 amplifier is established during the bootstrap: when the amplifier discovers a DHCP server on the network during the startup, it negotiates the networking parameters. If the Bias D1/Q1/Q2 does not reveal a DHCP server on the network during the startup, it set itself in AUTO IP mode.

Armonia Pro Audio Suite

Armonia Pro Audio Suite is the default configuring interface that allows system setting and customization of the Bias D1/Q1/Q2 DSP+D amplifiers.

Armonia can be installed on a PC running Windows (XP SP3 and higher). Download Armonia Pro Audio Suite for free from the dedicated website:

http://www.voidacoustics.com/void_uploads/Armonia.zip

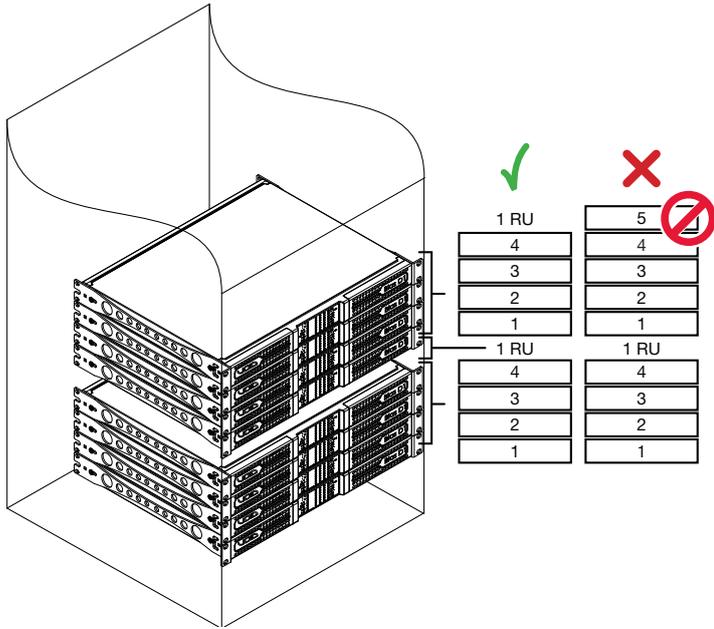
Input selection and Backup Policy

In Bias D1/Q1/Q2 DSP+D amplifiers it is possible to select among two input signal sources per channel: analog and Dante™ streams. Armonia Pro Audio Suite software provides an interface to select the input source. Furthermore Bias D1/Q1/Q2 DSP+D amplifiers implement a backup policy aimed to improve reliability against signal fault. By assigning a bus priority to the two different input sources per channel, the system is able to automatically switch to a reliable input connection in case of signal drop or pilot tone mismatch.

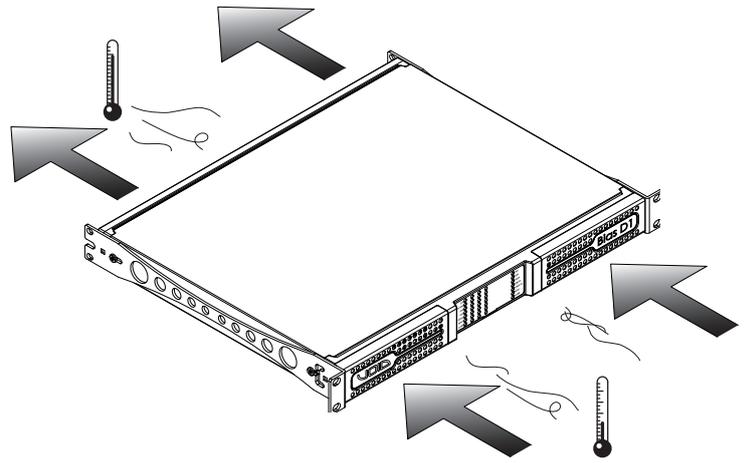
Output Load monitoring

Through the Armonia Pro Audio Suite software it is possible to set the thresholds on the load impedance, at given frequency, that trigger the general purpose output of any channel in Bias D1/Q1/Q2 DSP+D amplifiers.

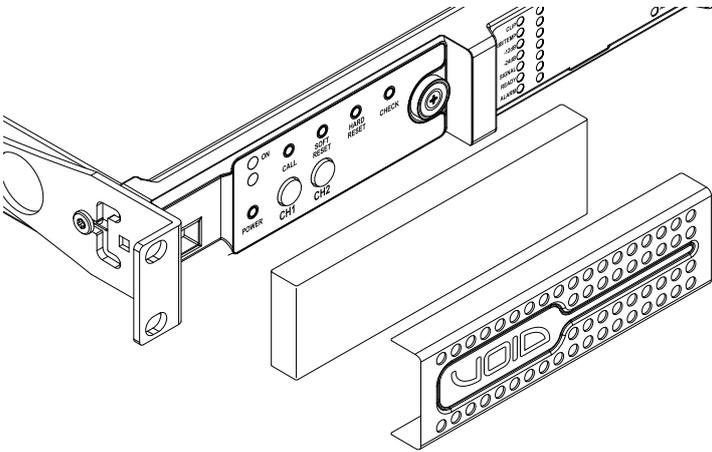
Location



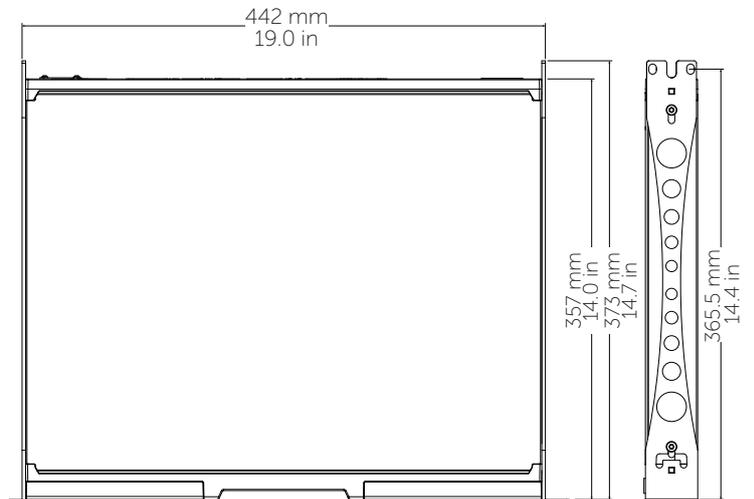
Cooling

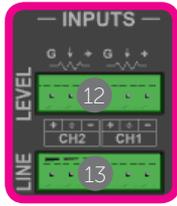


Exposing the Control Panel



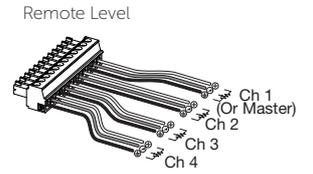
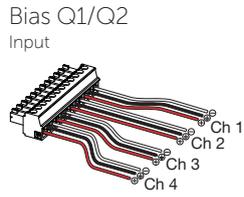
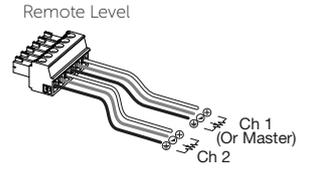
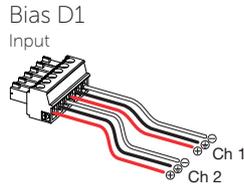
Dimensions





Input section

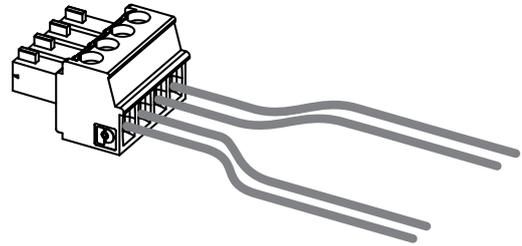
- 12 Remote Level connector
- 13 Line Input connector



Remote On/Off - Configuration dip switches

- 14 Remote On/Off connector (Phoenix MC 1,5/4-ST-3,81 1803594)
- 15 System Configuration dip switches

Remote On/Off



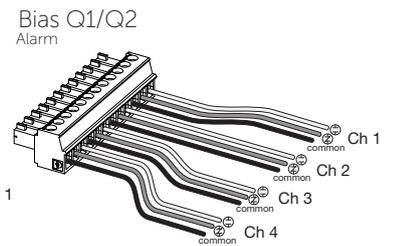
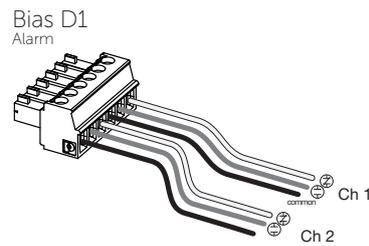
Input Gain Selection				CH1 Master	BRK Save	NRG Save	USR A	USR B	2 Ω*
26 dB	29 dB	32 dB	35 dB	1	4	5	6	7	8
2-3	2-3	2-3	2-3						

Bias Q2 model: USR C (reserved)



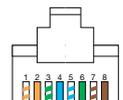
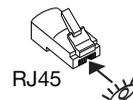
Alarm

GPO/Alarm connector



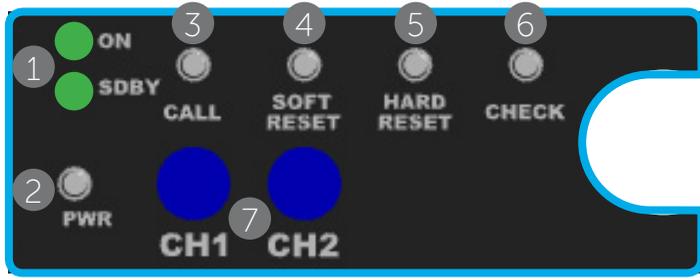
Ethernet and Dante™ ports

- 16 Ethernet port (RJ45)
- 17 Dante™ port (RJ45)



Color code (TIA/EIA-568-B)	Pin
	1
	2
	3
	4
	5
	6
	7
	8

Front Panel



Control Panel

- 1 Operating Mode LEDs (ON/STANDBY)
- 2 Power pushbutton
- 3 Armonia Callback pushbutton
- 4 Soft Reset pushbutton
- 5 Hard Reset pushbutton
- 6 Self Check pushbutton
- 7 CH1, CH2 attenuators (+ CH3, CH4 - Bias Q2)

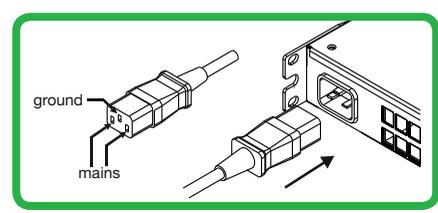
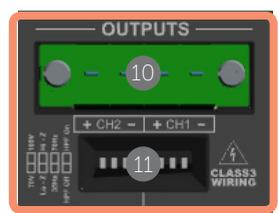
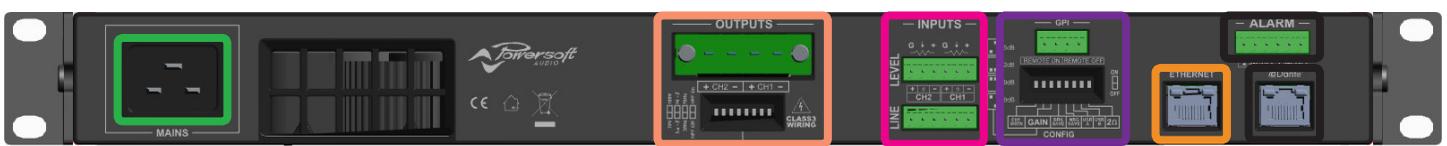
LED Panel

- 8 Channel Status LED meters
- 9 System Status LEDs

Serial Port

Reserved for service operations.

Rear Panel



Output section

- 10 Output connector
- 11 Output configuration Dip Switches

AC Mains Connector

IEC C19

	Low-Z	High-Z	100V	70V	HPF @ 35 Hz	HPF @ 70 Hz
A	•					
B		•	•			
C		•	•		•	
D		•	•			•
E		•		•		
F		•		•	•	
G		•		•		•

Bias D1

Single Ended
(Flipped view)

Ch 1, Ch 2

Bias Q1/Q2

Single Ended
(Flipped view)

Ch 1, Ch 2, Ch 3, Ch 4

Bridged

(Flipped view)

+

Bridged

(Flipped view)

+, -

A

100V
lo-Z
35Hz
HPF On

B

100V
lo-Z
70Hz
HPF On

C

100V
lo-Z
35Hz
HPF On

D

100V
lo-Z
35Hz
HPF On

E

100V
lo-Z
70Hz
HPF Off

F

100V
lo-Z
35Hz
HPF Off

G

100V
lo-Z
70Hz
HPF Off

LED Charts

LED Bars, signal metering

8

Color	Signal Metering	Warnings	
		Lighting	Description
ORANGE	Clipping *DSP+D User Limiter	—	—
YELLOW	-6dB	SOLID ON	Thermal warning Thermal protection engaged
		FLASHING	Auto Standby
GREEN	-12dB	—	—
GREEN	-24dB	—	—
GREEN	-60dB	SOLID ON	Signal presence
		BLINKING	Channel muted
GREEN	—	SOLID ON	Channel ready
RED	—	SOLID ON	Channel fault ¹

¹ Red LED lights on in case of any kind of channel fault that prevents the normal channel operating; at the same time the rear corresponding GPO toggles the contacts NO into NC and NC into NO.

Lighting	Timings	Description
FLASHING	100 ms ON 900 ms OFF	
BLINKING	500 ms ON 500 ms OFF	

LED Bar, system status

9

Color	Name	Warnings	
		Lighting	Description
ORANGE	LIMIT	FLASHING	Breaker Save Enabled
		SOLID ON	Breaker Save limiting power draw
YELLOW	TEMP	SOLID ON	Thermal warning Thermal protection engaged
ORANGE	CHECK	SOLID ON	System self checking
		BLINKING FAST BLINKING	Self check completed Self Check Unavailable
GREEN	REMOTE	FLASHING	Network connection presence
		SOLID ON	Connected to Armonia Pro Audio
GREEN	POWER ON	SOLID ON	System ready
		OFF	System off
GREEN	MAINS	SOLID ON	AC mains voltage within the operating range
		OFF	Undervoltage
		FLASHING	Over/Undervoltage Warning
		FAST BLINKING SLOW BLINKING	Oversvoltage Mains FUSES blown
RED	ALARM	SOLID ON	PSU fault ¹ OR Critical Faults

¹ Red LED lights on in case of any kind of PSU fault that prevents normal operating.

Lighting	Timings	Description
FLASHING	100 ms ON 400 ms OFF	
FAST BLINKING	100 ms ON 100 ms OFF	
BLINKING	500 ms ON 500 ms OFF	

Operating mode LEDs

1

Color	Name	Operating mode	
		Standby	Power On
GREEN	POWER ON	—	SOLID ON
ORANGE	STANDBY	SOLID ON	—
ORANGE	AUTO STANDBY	BLINKING	—
ORANGE	ERROR CODE	BLINK COUNTER	—

Control Panel

Label	Label	Type	Action	Description
2	POWER	Pushbutton	keep pressed for 3 seconds	Toggle system ready/standby mode
3	CALL	Pushbutton	press	Highlight the amplifier in the Armonia workspace
4	SOFT RESET ¹	Pushbutton	keep pressed for 3 seconds	Reset network parameters to factory default
5	HARD RESET ¹	Pushbutton	keep pressed for 3 seconds	Reboot the system
6	CHECK	Pushbutton	keep pressed for 3 seconds	Start the self-checking procedure*
7	CH1 ²	Potentiometer	turn counter-clockwise	Attenuate the output level of the signal on channel 1
	CH2 ²	Potentiometer	turn counter-clockwise	Attenuate the output level of the signal on channel 2

The push-buttons are disabled when connected to Armonia.

- Keep pressed both the SOFT RESET button and the HARD RESET button for at least 3 seconds to completely reset the amplifier to its factory default configuration (any preset stored in the internal memory will be lost and replaced with a flat preset).
 - The potentiometer is in series with the remote level control so it can be used to limit the output volume regardless to any remote adjustment.
- * Press again to resume normal operations

Self Check

6

The diagrams show the LED indicator panel for different system states:

- System OK:** All LEDs are off.
- Power supply fault:** MAINS (red) and ALARM (red) LEDs are lit.
- AC Mains voltage out of range (over/under voltage):** MAINS (red) and ALARM (red) LEDs are lit.
- PSU temperature out of range:** TEMP (yellow) and ALARM (red) LEDs are lit.
- Fan Error:** CHECK (orange) and ALARM (red) LEDs are lit.
- Channel# Output Waveform non-conformity:** SIGNAL (green) and ALARM (red) LEDs are lit.
- Channel# Temperature out of range:** TEMP (yellow) and ALARM (red) LEDs are lit.
- Channel# Output current measurement non-conformity¹:** SIGNAL (green) and ALARM (red) LEDs are lit.

- An 8 Ω dummy load is needed to measure the output current. If the dummy load is not applied the system reports a fault.

Warranty and Assistance

Warranty

Void guarantees its manufactured products to be free from defective components and factory workmanship for a period of time starting from the date of purchase printed on Void's (or any of its Authorized Dealer's) invoice to the end customer. The standard warranty period are:

48 months for racks amplifiers.

12 month for amplifier modules.

All warranty repairs and retrofits must be performed at Void facilities or at an Authorized Service Center at no cost for the purchaser. Warranty exclusion: Void's warranty does not cover product malfunctioning or failure caused by: misuse, abuse, repair work or alterations performed by non-authorized personnel, incorrect connections, exposure to harsh weather conditions, mechanical damages (including shipping accidents), and normal wear and tear. Void will perform warranty services provided that the product is not damaged during transportation.

Return of Goods

Goods can be returned to Void only after they have been granted a Return Merchandise Authorization (RMA) number to be attached to the external packaging. Void (or its Authorized Service Center) has the right to refuse any returned good without a RMA number.

Repair or replacement

Void reserves the right to repair or replace any defective goods covered by product warranty at its sole discretion and as it deems best.

Cost and responsibility of transport

The purchaser (or end user/customer) is solely responsible for all transportation costs and risks associated with sending warranty covered goods to Void or its Authorized Service Center. Void will assume full responsibility and cover all costs incurred to send the goods back to the purchaser (or end user/customer).

Assistance

All servicing and repairs for Void Bias series amplifiers is handled by Powersoft Worldwide. Please follow the instructions below in case of any difficulties.

There are no user-serviceable parts in the amplifier. Refer to qualified technical personnel for servicing. In addition to having an in-house service department, Powersoft supports a network of Authorized Service Centers. If your amplifier needs repair, contact your Powersoft dealer (or distributor). You can also contact the Powersoft Technical Service department to obtain the location of the nearest Authorized Service Center.

Powersoft offers two options for product repair:

- Drop off at a Powersoft Authorized Service Centre near you.
- Ship the product to Powersoft S.p.a. for Factory Service.

Drop off at a Powersoft Authorized Service Centre near you

- Find a Powersoft Authorized Service Centre from the list.
- Take a note of each serial number of the units to be returned.
- Completely fill out the defect report form for each unit to be returned.

Send the completed defect report form to service@powersoft.it (Service Team).

After having applied the aforementioned procedure, the local service manager will provide the shipment details and the product's warranty status.

In-Warranty repairs:

The service repair will be free of charge for the customer.

Out of Warranty Issues:

- The service costs are calculated on the local rate applied from the service centre and supervised by the Powersoft HQ
- The repair time has been set from the Powersoft HQ and it's equally applied in all the authorized service centre
- The unit will be evaluated by a technician, and the service centre will provide the customer with the estimated costs. The repair will only take place once the customer has approved the estimated costs.
- The customer will pay the shipping charges once the repair has been completed, depending on the countries' standard procedures.

For any enquiries please contact Powersoft Customer care service@powersoft.it

Shipping the product to Powersoft S.p.a. for Factory service centre

- Take a note of each serial number of the units to be returned.
- Fill out completely the defect report form for each unit to be returned.
- Send the completed defect report form to the following email address: service@powersoft.it bryan@voidacoustics.com and marco.mannucci@powersoft.it
- Once the unit has been repaired you will be provided with a works form which must be forwarded to the customer and bryan@voidacoustics.com

After having applied the aforementioned procedure, you will receive an Email containing the Return Merchandise Authorization (RMA form) for each unit returned.

All returned Powersoft units must be shipped to the following address:

Powersoft S.p.A. Factory service centre

Via dei Cadolingi 13

50018 Scandicci (FI)

Italy

Phone +39 (055) 7350230 Option 2

Email: service@powersoft.it

Contact Powersoft Factory service centre

Phone +39 (055) 7350230 Option 2

Email: service@powersoft.it

Phone Support Hours

Monday - Friday 8.30 AM to 5.30 PM Europe time

Shipment from NON-CE countries

When shipping from non-CE (European Community) countries, follow the procedure described in the TEMPORARY EXPORTATION / IMPORTATION PROCEDURE.

Important Note:

If the RMA# is not displayed anywhere on the outside of the box, the shipment will be rejected and sent back to the customer.

If the returned goods from NON-CE countries do not follow the aforementioned guidelines, the package will be rejected and sent back to the customer.

D.O.A. Procedure

In case of a D.O.A. (Dead On Arrival) product, we kindly request the customer to contact the local dealer where the product was purchased or the Factory service centre, mentioning the serial number of the faulty unit.

D.O.A. unit will be replaced completely without any additional charges!

Important Note: Do not tamper with or operate the D.O.A. unit in any ways in order to avoid any warranty issue.

Powersoft S.p.a declines any D.O.A warranty service if the returned unit has been tampered with or misused by the customer.

North America

Void Acoustics North America
503-854-7134
sales.usa@voidacoustics.com

Head Office

Void Acoustics Research Ltd
Unit 15 Dawkins Road Industrial Estate
Poole
Dorset
BH15 4JY
England

+44 (0) 1202 666 006
info@voidacoustics.com

Registered in England & Wales No. 07533536

www.voidacoustics.com

