

***NOVA***

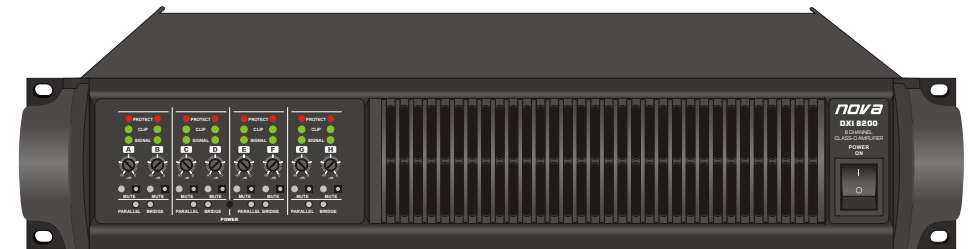
PROFESSIONAL AUDIO

**USER'S MANUAL**

# USER'S MANUAL

## DXI8200

8 CHANNEL CLASS-D AMPLIFIER



The information contained in this manual is subject to change without notice.  
No part of this manual may be reproduced or transmitted in any form or by any means,  
electronic or mechanical, including photocopying and recording of any kind.

**LIMITED WARRANTY**

**THE WARRANTY**

For a period of One (1) year from the date of delivery to the original purchaser (as shown on the original invoice or sales receipt), NOVA International Group Limited warrants to the ORIGINAL OWNER of each product (provided it was purchased at an Authorized NOVA Dealer) that it is free of defects in materials and workmanship and that each product will meet or exceed all factory published specifications for each respective model. NOVA agrees to repair or replace (at its discretion) all defective parts at no charge for labor or materials; subject to following provisions:

**WARRANTY VIOLATIONS**

NOVA shall take no responsibility for repair or replacement as specified under this warranty, if the damaged product has been subject to misuse, accident, neglect or failure to comply with normal maintenance procedures; or if the serial number has been defaced, altered or removed. Nor will NOVA accept responsibility for, or resulting from, improper alterations or unauthorized parts or repairs. This warranty does not cover any damage to speakers or any other consequential damage resulting from breach of any written or implied warranty.

**NOVA WARRANTY PROVISIONS**

NOVA will remedy any defect, regardless of the reason for failure (except as excluded ) by repair, or replacement. NOVA will remedy the defect and ship the product within a reasonable time after receipt of the defective product at an NOVA Authorized Service Center.

**TO OBTAIN WARRANTY SERVICE**

In the event that an NOVA product requires service, the Owner must contact NOVA or an Authorized NOVA Service Center to receive an R.A.N. ( Return Authorization Number) and instructions on how to return the product to the NOVA Authorized Service Center, or to the factory. NOVA (or its Authorized Service Center) will initiate corrective repairs upon receipt of the returned product. Please save original carton and all the packing materials in case shipping is required. All products being returned to the factory or service center for repairs must be shipped pre-paid.

If the repairs made by NOVA or the NOVA Authorized Service Center are not satisfactory, Owner is instructed to give written notice to NOVA. If the defect or malfunction remains after a reasonable amount of attempts by NOVA to remedy the defect or malfunction, the Owner shall then have the option to elect either a refund or replacement of said NOVA product free of charge. The refund shall be an amount equal to but not greater than the actual purchase price, not including any taxes, interest, insurance, closing costs and other finance charges (minus reasonable depreciation on the product). If a refund is necessary, the Owner must make the defective or malfunctioning product available to NOVA free and clear of all liens or other restrictions.

**MODIFICATIONS OF EQUIPMENT**

NOVA reserves the right to modify or change equipment (in whole or part) at any time prior to delivery thereof, in order to include therein electrical or mechanical improvements deemed appropriate by NOVA; but without incurring any liability to modify or change any equipment previously delivered, or to supply new equipment in accordance with any earlier specifications.

**DISCLAIMER OF CONSEQUENTIAL AND INCIDENTAL DAMAGES**

YOU, THE OWNER, ARE NOT ENTITLED TO RECOVER FROM NOVA ANY INCIDENTAL DAMAGES RESULTING FROM ANY DEFECT IN THE NOVA PRODUCT. THIS INCLUDES ANY DAMAGE TO ANOTHER PRODUCT OR PRODUCTS RESULTING FROM SUCH A DEFECT.



**WARRANTY ALTERATIONS**

No person has the authority to enlarge, amend, or modify this Warranty. This Warranty is not extended by the length of time which the Owner is deprived of the use of product. Repairs and replacement parts provided pursuant to the Warranty shall carry only the non-expired portion of the Warranty.

**THIS STATEMENT OF WARRANTY SUPERSEDES ALL OTHERS CONTAINED IN THIS MANUAL**

The information furnished in this manual does not include all of the details of design and engineering of this particular product; not does it cover every possible application or situation concerning its usage, which may occur during the installation, operation or maintenance of said NOVA product.

**IMPORTANT  
THE PRODUCT REQUIRES  
CLASS 2 OUTPUT WIRING.**

	<b>CAUTION</b>	
<p>TO PREVENT ELECTRIC SHOCK, DO NOT REMOVE TOP OR BOTTOM COVERS. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. DISCONNECT POWER CORD BEFORE REMOVING REAR PANEL COVER TO ACCESS GAIN SWITCH.</p>		<p>Shock Hazard - Do Not Enter Choc Hazard - N*entrent Schocke Hazard - Test Nicht Betrete Urto Hazard - Do Non Entrano</p>



**WARNING**

**TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE!**

**Magnetic Field**

CAUTION: Do not locate sensitive high-gain equipment such as preamplifiers or tape decks directly above or below this unit. Because this amplifier has a high power density, it has a strong magnetic field which can induce hum into unshielded devices that are located nearby. This field is strongest just above and below the unit. If an equipment rack is used, we recommend locating the amplifier(s) at the bottom of the rack and the preamplifier or other sensitive equipment at the top.

The lightning bolt triangle is used alert the user to the risk of electric shock.	The exclamation point triangle is used to alert the user to important operating and/or maintenance instructions.	Printed on recycled paper.
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### Introduction

Congratulations on your purchase of a DXI8200 audio power amplifier. We would like to thank you for your confidence in us and our products.

All the components were specially selected. Although the amplifier was designed to allow straightforward and uninterrupted operation, improper handling or incorrect installation could damage the power amplifier.

Your amplifier represents the latest technology in power amplifier design. Please read this manual carefully as it contains information vital to the safe operation of your amplifier.

### Unpacking

Check the carton box and its contents immediately to see if there is any sign of damage.

Upon unpacking inspect the amplifier, if you detect any damage inform the forwarding agent without delay and ask for the damage to be documented.

Claims can only be made against the forwarder agent by the consignee.

Be sure to save the carton and all packaging materials for the carrier's inspection.

It's a good idea to save the carton and packing material even if the amplifier has arrived in good condition. Should you ever need to ship the unit back to service office, or one of its Service Center. Using only the original factory packaging will be the best way to save the unit from carrier negligence.

### Installation/Mounting

DXI8200 is 2-rack space units that can mount in a standard 19" rack. Four front panel mounting holes are provided.

Rear mounting ears give additional support especially important in mobile sound systems.

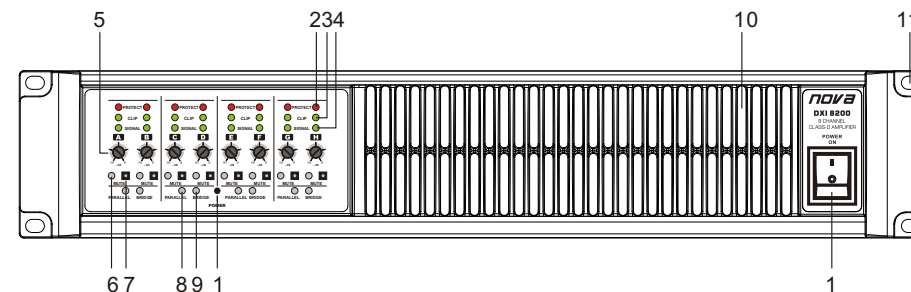
*The unit should not to be installed in a location with:*

- Too high ambient temperature, dust build-up or excessive humidity;
- Fog machines output oriented to the area of the amplifier;
- Exhaust air ventilators and similar units near the area of the amplifier;
- With permanent vibrations;
- With excessive induction or magnetic fields due to transformers and transmitters;

### The Show Always Goes On

DXI8200 is completely protected against every possible error in operation and is designed to work under every condition. It gives you maximum power with maximum safety and increases long-term reliability. Anticipating potential problems at the design stage means your show always goes on!

### Front Panel



1. POWER switch and indicator  
Turns power to the unit on or off. The indicator lights green when the power is on.
2. PROTECT indicator  
When the protection system is active, the indicator lights red. When this is lit, the amplifier or power supply is auto-matically shut down, and no sound will be output from the speakers.
3. CLIP indicator  
This indicator will light red when the output power exceeds 100 W for an 8Ω load or 200 W for a 4Ω load. When this is lit, the limiter will automatically operate.
4. SIGNAL indicator  
This indicator will light green when the output level exceeds 2 Vrms. (This will light at 0.5 W or greater for an 8Ω load, 1 W or greater for a 4Ω load.)
5. Attenuator  
These are detented knobs that attenuate the input signal of each channel (A~H) over 41 steps in a range of 0 dB ~ -∞ dB.  
  
**NOTE.** To operate these knobs, use a slotted screwdriver with a blade no wider than 5.5 mm.
6. MUTE indicator  
This will light red when mute is activated.
7. MUTE switch  
This turns muting on/off for each channel. Use a thin rod to turn muting on/off.
8. PARALLEL indicator  
This will light orange when the rear panel MODE switch is set to PARALLEL.
9. BRIDGE indicator  
This will light orange when the rear panel MODE switch is set to BRIDGE.

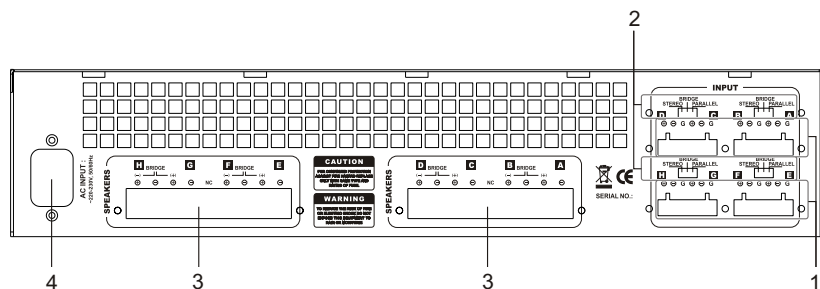
### 10. Fan intake grill filter

One grill with foam filter is located on the front panel to prevent dust from entering the amplifier. For easy cleaning of the filter the grill is removable by simply pulling it off. The foam filter should always be used. The fan's variable speed control ensure low noise operation and adapt the quantity of air required from the actual temperature inside the unit. Thanks to this advanced system low noise is guarantee. Do not block this intake!

### 11. Rack mounting ears

Two front panel mounting holes are provided on each mounting ear.

### ◆ Rear Panel



#### 1. INPUT connectors

These are balanced input connectors. The included Eurob-lock connectors can be used to make connections here.

#### 2. MODE switches

These specify the amplifier's operation mode for each two channels.

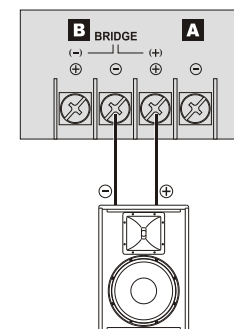
- STEREO mode  
Each channel (A~H) will operate independently.
- BRIDGE mode  
The amplifiers will be bridged for pairs of adjacent channels (A-B, C-D, E-F, G-H), obtaining a high-power output.
- PARALLEL mode  
The input signals will be input to the adjacent channels (A-B, C-D, E-F, G-H) as well.

### 3. SPEAKERS connectors

These are barrier strip type speaker output connectors.

#### NOTE:

- If using BRIDGE mode, connect the speakers to the “+” pin of channels A/C/E/G and the “-” pin of channels B/ D/F/H.
- Do not connect the pin marked NC located in the center of the bottom row of the barrier strip connectors.



### 4. AC inlet

Connect this to the socket end of the included AC power cable. Connect the plug end of the AC power cable to an AC outlet of the correct voltage.

Speakers can be connected to the DXI8200 using the following three mode settings. The total load impedance of the speakers that can be connected will depend on the mode setting. Do not use a setup that has a lower impedance than the minimum values shown below.

### STEREO mode

If the rear panel MODE switch is set to STEREO, each channel will operate independently. You can use the front panel attenuators to adjust the attenuation for each channel independently.

**NOTE** • Total speaker impedance must be 4Ω~8Ω

### PARALLEL mode

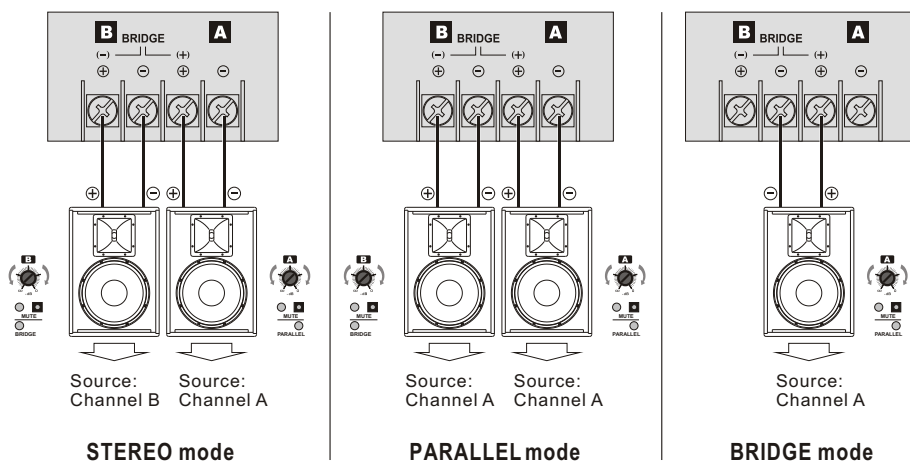
If the rear panel MODE switch is set to PARALLEL, the input signals will be input to the adjacent channels (A-B, C-D, E-F, G-H) as well. Either of adjacent two channels can be used as an input connector. You can use the front panel attenuators to adjust the attenuation for each channel independently.

**NOTE** • Total speaker impedance must be 4Ω~8Ω

### BRIDGE mode

If the rear panel MODE switch is set to BRIDGE, the amplifiers will be bridged between adjacent pairs of channels (A-B, C-D, E-F, G-H), and the IPA8200 will operate as a high-power amplifier. Either of adjacent two channels can be used as an input connector. Use the front panel channel A/C/E/G attenuators to adjust the attenuation.

**NOTE** • Total speaker impedance must be 8Ω~16Ω



## SPECIFICATIONS

MODEL	DXI8200	
Max output power	4 Ω per channel (Watt)	220W x8
	8 Ω per channel (Watt)	120W x8
rms at 1 kHz and 0.1 % THD	8 Ω BRIDGE	350W x4
	4 Ω per channel (Watt)	160W x8
rms at 20Hz-20kHz and 0.1 % THD	8 Ω per channel (Watt)	90W x8
	8 Ω BRIDGE	320W x8
1 kHz , 20ms Burst	4 Ω per channel (Watt)	180W x8
	8 Ω per channel (Watt)	100W x8
Maximum Input Level	8 Ω BRIDGE	
Input Impedance	360W x8	
Input Sensitivity (dBu)	+24dBu	
8 Ω , Att. max	Input sensitivity	0.775V
S/N Ratio	A-weighted	≥95dB
THD+N	1kHz, half power, 4Ω	≤0.5%
Frequency Response	1W, 8Ω	20Hz-20kHz, +0dB, -1.5dB
Channel Separation	1kHz, half power, 8Ω Att. max, input 600Ω shunt	≥55dB
Controls	Front Panel	POWER switch MUTE switch (push ON/push OFF) x 8 Attenuator (41position) x 8
	Rear Panel	MODE switch (STEREO/BRIDGE/PARALLEL) x 4
Connectors	Input	Euroblock (balanced)/ch
	Output	Barrier strip/ch
	Power	AC inlet x 1
Indicators	POWER x 1 (Green), PROTECT x 8 (Red), CLIP x 8 (Red), SIGNAL x 8 (Green), MUTE x 8 (Red), PARALLEL x 4 (Orange), BRIDGE x 4 (Orange)	
	Load Protection	POWER switch on/off
Amplifier Protection	DC-fault	Output mute
	Thermal	Power supply shutdown
Power Supply Protection	Over current	Power supply shutdown
	Thermal	Power supply shutdown (heatsink temp ≥80°C)
Limiter Circuit	Clip limiting	Output mute (heatsink temp ≥80°C)
AC Power Requirement	Limiting level ≥100W @8Ω or 150W@4Ω	
Power Consumption	~220-240 50/60Hz	
Dimensions ( W x D x H )	800W	
	Unit ( mm )	483 x 355 x 89
Weight ( kg )	Packing ( mm )	570 x 480 x 165
	Net Weight	8
	Gross Weight	10

The DXI8200 amplifier has an automatic power factor correction system for a perfect main network interface. The amplifier is a resistive load for the main network, minimizing the reactive power and the harmonic distortion on the current. The system allows performance to be maintained even in circumstances of varying the mains voltage.

### Service

This unit has very sophisticated circuitry and should only be serviced by a fully trained technician.

This is why each unit bears the following label:



To prevent electric shock, do not remove covers. No user serviceable parts inside. Refer servicing to a qualified technician.

### Worldwide Service

Service may be obtained from your local authorized service center. To obtain service, simply present your sales receipt as proof of purchase along with the defective unit to an authorized service center. They will handle the necessary paperwork and repair. Remember to transport your unit in the original factory packaging.

1. When sending a NOVA product to the authorized service center for service, be sure to fill out the service information form that is enclosed at the end of this manual and include it inside your unit's shipping pack. Do not send the service information form separately.
2. To ensure the safe transportation of your unit to the authorized service center, ship it in an original factory-packing container.
3. **Do not** ship the unit in any kind of rack. Ignoring this warning may result in extensive damage to the unit and the equipment rack. Accessories are not needed. Do not send the instruction manual, cables and any other hardware.



### WEEE Mark

If you want to dispose of this product, do not mix with general household waste. There are separate collection systems for used electronic products in accordance with legislation under the WEEE Directive (Directive 2002/96/EC) and is effective only within the European Union.

# NOVA Products Service Information Form

Owner's Name: \_\_\_\_\_  
Shipping address: \_\_\_\_\_  
Street: \_\_\_\_\_  
City: \_\_\_\_\_  
Zip Code: \_\_\_\_\_  
Country: \_\_\_\_\_  
Phone Number: \_\_\_\_\_ Fax Number: \_\_\_\_\_  
Email: \_\_\_\_\_

MODEL: \_\_\_\_\_ SERIAL: \_\_\_\_\_  
NUMBER: \_\_\_\_\_  
Place of Purchase: \_\_\_\_\_  
Name of Dealer: \_\_\_\_\_  
Full Address: \_\_\_\_\_  
DATE OF PURCHASE: \_\_\_\_\_

### Nature of the problem

(Be sure to describe the conditions that existed when the problem occurred and what attempts were made to correct it.)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

### Other equipment in your system

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

If warranty has expired, payment method:  Cash  Check  Visa  Master  
card number: \_\_\_\_\_ Signature: \_\_\_\_\_

Enclose this form with the defective unit. Do not mail separately.

