

Class D Audio

Email: sales@classdaudio.com

Website: www.classdaudio.com

Mini GaN 5 Power Amplifier Users Manual



CAUTION!

The AC Switch on the bottom of this amplifier MUST BE Correctly Set before using this amplifier. Please carefully read this manual before operating the amplifier!



Contents	1
Important Safeguards	2
Important Information	3
Setup – One	4
Setup – Two	5
Specifications.....	6
Questions	7
Warranty	8

Thank you for your purchase. We hope this Gallium Nitride Powered Class D Amplifier will give you hours and hours of enjoyment as you experience the multitude of fantastic qualities that this Gallium Nitride Amplifier provides.

**Our products are manufactured by us here
in the USA and Built Like a Tank!**

Of course, by law, because many of the chips and electronic components we use are made in other countries, we have to say: Made in the USA from domestic and imported parts. We do purchase most of the components we use from certified USA distributors.

These days, the markets are flooded with inferior counterfeit components. We only use certified parts.



SAFEGAURDS

Important Safeguards

PLEASE READ CAREFULLY ALL THE FOLLOWING IMPORTANT SAFEGUARDS THAT ARE APPLICABLE TO YOUR EQUIPMENT AND YOUR SAFETY

Before You plug this amplifier into the wall AC Socket, please be sure to check the AC Voltage Selection Switch located on the Bottom Side of the amplifier. Use a coin, screwdriver, or other to set this switch to the correct position for the AC Voltage for your area. If you are unsure of the AC voltage in your area, please be sure to ask a local electrician before you plug this into the wall socket. Choices are 110 VAC and 220 VAC. **Failing to do so can damage the amplifier and void your warranty!**

WARNING!



Please Carefully Read this User's Manual completely and retain it for future reference. All safety instructions and warnings should be strictly adhered to.

Power supply cords and all connecting cables or wires should be routed so that they are not likely to be walked on or pinched. Always use wires with adequate ratings and safety certifications (CE, UL, etc.)

Proper ventilation is crucial for safe and reliable operation. Never place anything on top of your amplifier that could obstruct airflow and cause the parts to overheat and damage the amplifier. Do not use this product near water or wet areas.

INFORMATION

“Class D Audio would like to thank you for purchasing this very high-quality Gallium Nitride Class D power amplifier. We are confident that your amplifier will be a pleasure to use and will provide you with many years of listening pleasure.”

Please Read

Before using this amplifier, please take the time to carefully read and understand this user’s manual and pay close attention to the safety instructions, warnings, and operating procedures. Becoming familiar with all the details about your amplifier will ensure safe usage and reliable operation. The effort you invest now will be well rewarded as time goes by. Please do not hesitate to contact us with any questions.

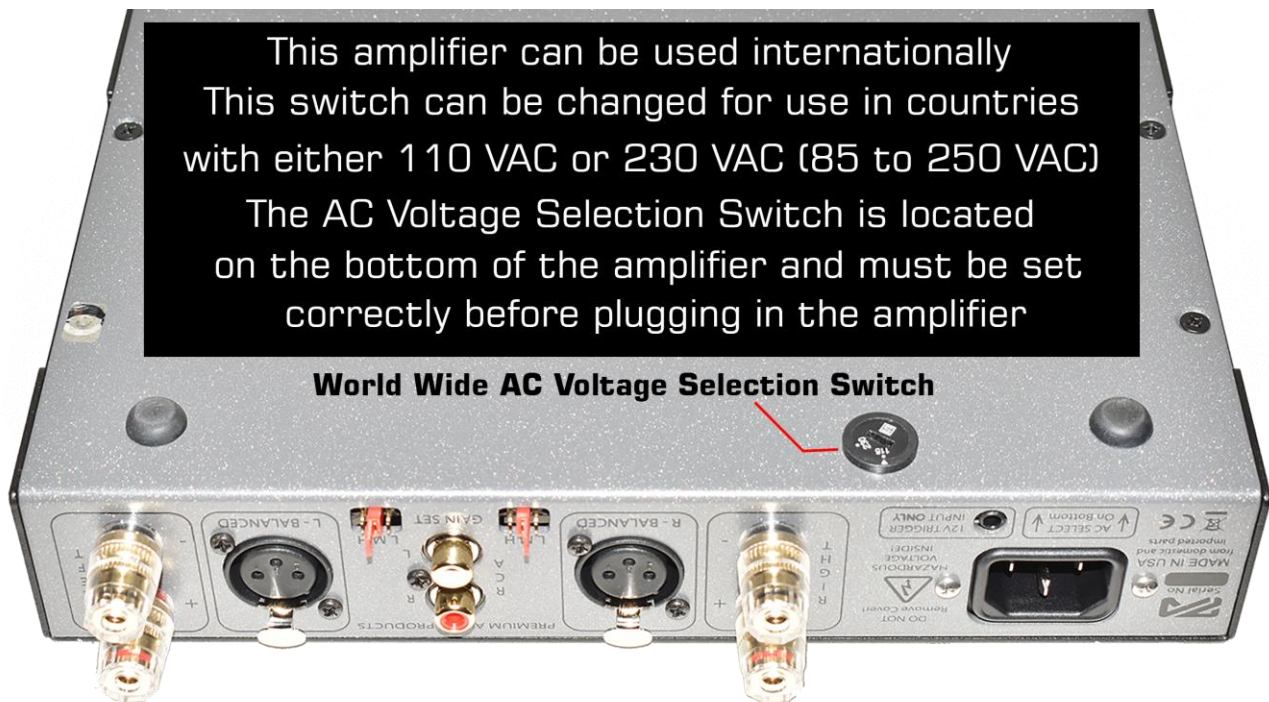
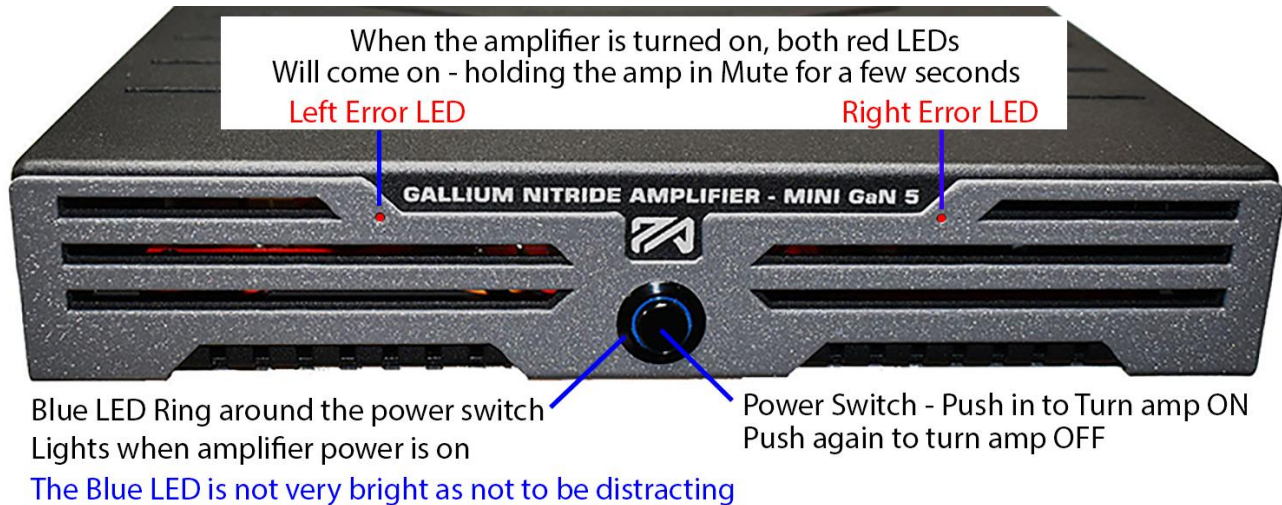
Questions or Help?

Please contact us at:
sales@classdaudio.com

About Our Gallium Nitride Amplifiers

Class A has been the serious audiophile’s gold standard for decades. Today however, we are at the early stages of a seismic shift towards widespread Class D audiophile adoption. Why? Because a new type of Class D audio is quickly approaching the performance of Class A. Gallium Nitride (GaN) is poised to uproot the high-end audio world. In fact, GaN-based Class D is much more power-efficient than traditional, MOSFET-based Class D and offers orders of magnitude better performance. Performance that to many listeners, even surpasses the quality of Class A.

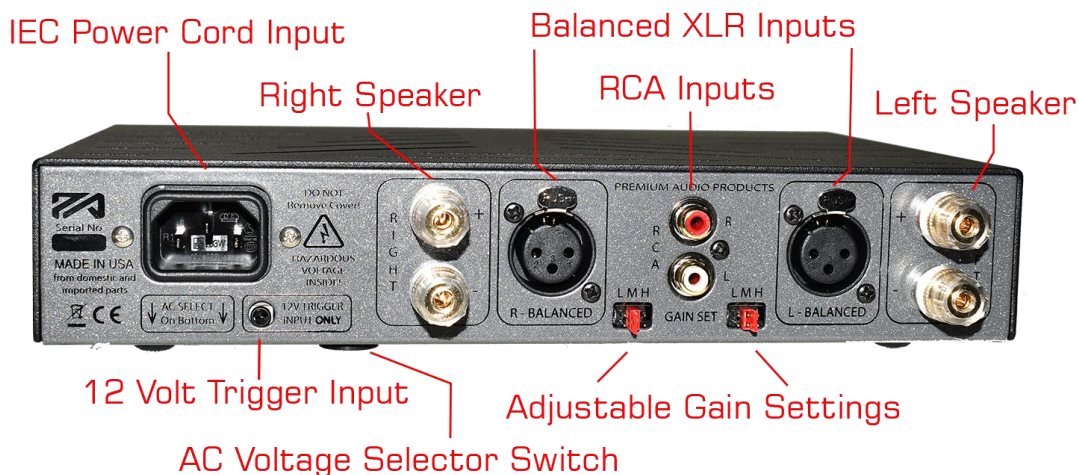
SETUP - ONE



WARNING NOTE: This is a Full Bridge Class D Gallium Nitride audio amplifier and while both loudspeaker outputs are ground-referenced, neither is connected to ground. **DO NOT CONNECT EITHER OF THESE LOUDSPEAKER OUTPUTS TO ANY SYSTEM OR TEST EQUIPMENT GROUND!!**

SETUP - TWO

Mini GaN 5 Gallium Nitride Stereo Power Amplifier



- **IEC Power Cord Input** – This is the AC Power Cord Input. Use Minimum 10 Amp AC Cord.
 - **AC Selector Switch** – The AC Voltage Selector Switch is located on the bottom of the amp.
CAUTION! Be sure to set this AC Selector switch correctly before using this amplifier.
 - **12 Volt Trigger Input** – This is a 12 Volt Trigger Input (only input). Connect a preamp or other device with a 12V Trigger output to this 12V Trigger input, and when your preamp or other device is turned on or off, it will also turn the amp on and off. Be sure to leave the amplifier front power switch in the off position when using the 12V trigger input.
 - **Adjustable Gain Settings** – Three Position Input Gain Settings. Low – Medium – and High. Low Gain = 26db, Medium = 28db, and High = 32db. Most speakers can use the Medium Gain (M) position. High efficiency speakers are best with the amp set at low gain (L). Low efficiency speakers are best with amplifier set at High Gain. You can change these settings to see what sounds best with your system... no rocket science here.
 - **Balanced XLR Inputs** - These are the Differential Balanced XLR Inputs. The wiring is standard for XLR inputs – Pin 1 is Ground, Pin 2 is Hot +, and Pin 3 is - Cold.
 - **Single Ended RCA Inputs** – These are Standard Single Ended RCA Inputs. Use either XLR or RCA inputs. Do not use XLR and RCA at the same time as they share the same signal path.
 - **Speaker Outputs** – 5-Way Gold Plated Copper Speaker Binding posts. Connect to Left and Right side Speakers. Each side is clearly labeled. + Red = Positive and - Black = Negative.
- WARNING NOTE:** This is a Full Bridge Class D Gallium Nitride audio amplifier and while both loudspeaker outputs are ground-referenced, neither is connected to ground. **DO NOT CONNECT EITHER OF THESE LOUDSPEAKER OUTPUTS TO ANY SYSTEM OR TEST EQUIPMENT GROUND!! DO NOT LET SPEAKER WIRES TOUCH (SHORT) EACH OTHER!**

SPECIFICATIONS

Class D Audio Mini GaN 5 Gallium Nitride Audio Power Amplifier

Power Output (8 Ω)

200 WRMS Continuous (400W Peak)

Power Output (4 Ω)

400 WRMS Continuous (500W Peak)

Power Supply

Bipolar LLC Resonant Converter

Input Impedance

Balanced XLR – 100K

Single Ended RCA – 100K

Audio Performance

THD+N 0.006% 8 Ω , 1 kHz, 1 W Power

THD+N 0.003% 8 Ω , 1 kHz, 5 W Power

THD+N 0.005% 8 Ω , 1 kHz, 15 W Power

THD+N 0.006% 8 Ω , 1 kHz, 50 W Power

THD+N 0.02% 8 Ω , 1 kHz, Full Power

THD+N <0.02% 8 Ω , 20 Hz-20 kHz, -9 dB

Frequency Response

20 Hz – 20 kHz, ± 0.5 dB

SNR/DNR

108 dB (Unweighted), 110 dB (A-weighted)

Analog Audio Inputs

Two Balanced Differential Inputs XLR Sensitivity - 2 VRMS Sensitivity

Two Unbalanced Single-ended RCA Inputs - 2 VRMS Sensitivity

AC Voltage Input

90 to 264VAC. Voltage Selectable from switch on bottom of the amplifier.

Size and Weight

Amplifier measures 9.75" Wide X 7.5" Deep X 2" Tall. Weight is 5 lbs./2.3kg

Shipping Weight – 7 lbs/3kg

QUESTIONS

If you have any questions, need help, or assistance, please contact us. We will do our best to get back to you right away.

Read Our Frequently Asked Questions on our website Here:

<https://classdaudio.com/faq>

Or Contact Us at: sales@classdaudio.com

Did You Know?

Our Gallium Nitride powered class D amplifiers have the sonic performance of a class A amplifier, but with an efficiency of up to 96%. Compare this to a class A amplifier efficiency of 25 to 30%. The choice is clear.



WARRANTY

Class D Audio 3 Year Warranty

SUMMARY OF WARRANTY

Class D Audio warrants to you, the ORIGINAL PURCHASER of each NEW Class D Audio Power Amplifier for the period of Three (3) Years from the date of purchase by the original purchaser (the "warranty period") that the new Class D Audio amplifier is free of defects in materials and workmanship. We further warrant new Class D Audio amplifier regardless of the reason for failure, except as excluded in this Warranty.

ITEMS EXCLUDED FROM THIS CLASS D AUDIO WARRANTY

This Class D Audio Warranty is in effect only for failure of a new Class D Audio amplifier which occurred within the Warranty Period. It does not cover any product which has been damaged because of any intentional or unintentional misuse, accident, or negligence. It does not cover any loss or damage which is covered under any of your insurance contracts. This Class D Audio Warranty also does not extend to the new Class D Audio amplifier if the serial number has been defaced, altered, or removed, or if the product has been modified or altered in any way. The warranty also does not cover any of our products if the warranty sticker has been removed or tampered with, or if the amplifier has been taken apart or tampered with.

WHAT THE WARRANTOR WILL DO

We will remedy any defect, regardless of the reason for failure (except as excluded), by repair or replacement. We will remedy the defect and ship the product from the service center or our factory within a reasonable time after receipt of the defective product at our authorized service center or our factory. All expenses in remedying the defect, including surface shipping costs in the United States, will be borne by us. You must bear the expense of shipping the product between any foreign country and the port of entry in the United States including the return shipment, and all taxes, duties, and other customs fees for such foreign shipments.

DISCLAIMER OF CONSEQUENTIAL AND INCIDENTAL DAMAGES

YOU ARE NOT ENTITLED TO RECOVER FROM US ANY INCIDENTAL DAMAGES RESULTING FROM ANY DEFECT IN THE NEW Class D Audio Amplifier. THIS INCLUDES ANY DAMAGE TO ANOTHER PRODUCT OR PRODUCTS RESULTING FROM SUCH A DEFECT.

HOW TO OBTAIN WARRANTY SERVICE

You must contact us at sales@classdaudio.com for warranty service within the warranty period. All components must be shipped in the original box. Corrective action will be taken within a reasonable time of the date of receipt of the defective product by our authorized service center. If the repairs made by our authorized service center are not satisfactory, notify our authorized service center immediately.