JAVA HI-FI

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LDR GaN FET integrated amplifier

Our aim is to bring music closer.

The act of listening to music is one of life's simple pleasures, an escapist diversion from the often mundane aspects of our busy daily lives. A chance to let the imagination takeover and the senses be entertained by a variety of rich musical tapestries. With this in mind, JAVA has designed the Double Shot Integrated Amplifier to deeply immerse the listener into the music they love.

YOUR DOUBLE SHOT INTEGRATED AMPLIFIER

Your JAVA Hi-Fi Double Shot Integrated Amplifier is designed to reproduce music with extraordinary realism. Featuring an LDR pre-amplifier stage and cutting-edge GaN FET amplifier modules, our innovative technology and premium componentry works in harmony to reveal subtle new details in familiar pieces of music. Music flows effortlessly from your speakers in its purest form, enveloping the listener in an immersive soundstage that takes you directly to the heart of the performance – to the simple moment when the music becomes beautiful.

KEY FEATURES

+ **Luxury CNC-machined birch ply wooden casework**

+ **Precision machined solid 4mm aluminium front and rear panels**

+ **Quality ETI Research RCA connectors and speaker binding posts**

+ **400 watts/8 ohms**

+ **4 x pairs of XLR line-level inputs**

+ **2 x pairs of XLR outputs (1 x fixed and 1 x variable)**

+ **High-resolution DAC (USB input)**

+ **MM phono stage (RCA inputs)**

+ **Bluetooth aptX**

+ **1 x headphone output**

+ **Remote control**

+ **Innovative inverted PCB assembly for vibration and resonance control of the audio circuit**

Premium materials are selected for each JAVA Hi-Fi amplifier based on their aesthetic qualities, their durability and their ability to isolate structural vibration and minimise resonance.

A unique inverted assembly design further isolates critical electronic circuits from vibration, while high-accuracy laser-cutting and CNC machining of components (utilising advanced computer-aided design software) ensures optimum fit and finish.

Extensive prototyping and testing of every component ensures only the highest-quality finished product is shipped, guaranteeing years of trouble-free listening.

OPERATION

Installation

Position your JAVA Hi-Fi amplifier on a stable, horizontal surface where there is no risk of it being knocked or subjected to external vibration, such as from loudspeakers.

Power Connection

Use an approved IEC mains cable to plug into the IEC socket on the back of the unit.

Burn-in and warm up

All amplifiers are thoroughly tested before shipping and have had a minimum of 72hrs burn-in. Your amplifier will sound wonderful straight from initial power up, but the sound will continue to incrementally improve over the first 100hrs of use.

Note: The JAVA Double Shot Integrated Amplifier incorporates a passive LDR pre-amplifier stage for the ultimate in musicality and transparency. Due to the use of a passive pre-amplifier stage, the line level inputs may not perform optimally with source components that are specified with rated output below 500mv into loads of 3000 ohms or higher (the vast majority of equipment today delivers rated output into 600 ohms or lower).

Cleaning

Dust regularly with a clean, dry, lint-free cloth. Do not use household cleaning products.

Disposal

This product must not be disposed of as normal household waste. To prevent possible harm to the environment, please separate the product from other waste to ensure that it can be recycled in an environmentally safe manner. Please contact your local government authority or council for available collection facilities.

Safety

As with all electronic devices, it is important to observe a few precautions:

+ **Heed all warnings in this manual and on the rear panel of the product**

+ **Only connect the amplifier to a mains outlet having the same voltage as marked on the rear panel of the unit**

+ **Always ensure that the mains supply is switched off when disconnecting and reconnecting your audio equipment**

+ **Position the mains lead and signal interconnects where they are not likely to be walked on or trapped by items placed on top**

+ **Do not use near water or place water-filled containers on the amplifier. If water does spill on the amplifier, immediately pull out the mains plug from the wall socket and have the unit checked by an authorised electrician before further use. Entry of liquid into the amplifier is dangerous and may cause electric shock or a fire hazard**

+ **Do not place the unit near direct heat sources such as radiators, direct sunlight or other equipment**

+ **For protection during an electrical storm, remove the mains plug**

+ **If after-sales service is required, please quote the serial number located on the rear panel of the unit**

+ **Do not remove any covers or try to gain access to the inside of the amplifier. There are no user serviceable parts inside. Refer all service work to JAVA Hi-Fi (email info@javahifi.com)**

Front Panel

INPUTS
Line Level 1
USB DAC
Line Level 2
MM Phono
Line Level 3
Bluetooth
Line Level 4

VOLUME

IR SENSOR

HEADPHONE JACK

Rear Panel

SPEAKER OUTPUTS
(Right)

BLUETOOTH AERIAL

SPEAKER OUTPUTS
(Left)

POWER ON/OFF

FUSE
replace with 6 amp
slow blow min

MODEL

IEC MAINS INPUT
110–250 Volts AC
50/60Hz

SERIAL NUMBER

FIXED PRE OUTPUTS
These output fixed line
level balanced signals.

PHONO GROUND

LINE INPUTS 1—4
Accepts a line level balanced
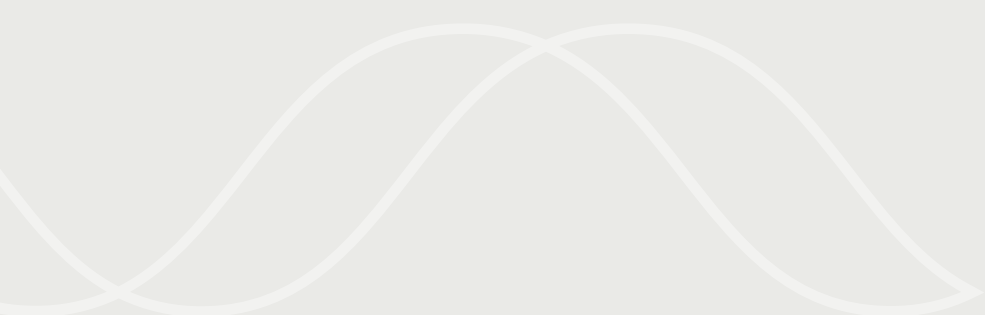signal from any stereo source
rated at 0.5V – 5V RMS.

VARIABLE PRE OUTPUTS
These output variable line level
balanced signals to a subwoofer,
power amplifier or active (amplified)
speakers.

PHONO
Accepts a signal from a
turntable equipped with a MM
(moving magnet) phono cartridge.
NOTE: If using an MC (moving
coil) phono cartridge, a step-up
transformer will be required.

USB DAC
Accepts a digital signal
via USB from a computer,
streamer, music server or
any other USB-enabled
device

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REMOTE HANDSET

Please note that you will need to remove the small plastic tab from the remote control that stops the batteries making contact during shipping. Insert a paperclip into the marked hole on the rear of the remote handset to pop off the front panel, then remove the small strip of plastic sitting under the batteries. Voila!

The buttons on the remote handset control the following functions and as per the image to the right (from top left, then in horizontal rows).

+ **STANDBY - puts the amplifier into standby. This disables the GaN FET amplifier modules and only keeps power to the front panel**

+ **MUTE - mutes the amplifier**

+ **NIGHT LISTENING MODE - dims the front panel lights to 10% of regular brightness for night time listening (Note: the selected input always stays at full brightness)**

+ **CAL - not currently operational. This is for a future feature not yet deployed**

+ **INPUT -**

+ **INPUT +**

+ **VOLUME -**

+ **VOLUME +**

SPECIFICATIONS

Amplifier

Measurements:

Output Power:	400W/8Ω (THD < 0.05%)
Dynamic Range:	> 112dB SNR and Dynamic Range
Distortion:	< 0.01% THD+N (8Ω, 1W, 20Hz to 20kHz); 0.02 % THD+N (8Ω, 25W, 1kHz)
Output Noise:	105 dB (Unwtd, 400W/8Ω)
Frequency Response:	10Hz - 20kHz (+/- 0.5dB)
Input Impedance:	100kΩ
Common-Mode Rej:	75dB (20Hz to 20kHz)

Power Supply

Measurements:

Input Voltage:	85VAC ~ 265VAC (50/60Hz)
Output Voltage:	Dual Rails +-42VDC output
Output Power:	1100W Continuous Output Power 1300W Peak Power
Efficiency:	High efficiency (up to 94%)

Other:	Ultra low-noise Zero Current Switching (ZCS) SMPS
	Advanced protection system
	Active power factor corrector

MM Phono Stage

Measurements:

Input Impedance:	47kΩ
Input Capacitance:	200Pf
Gain:	45dB (at 1KHz)

Other:

The RIAA equalisation is achieved using a passive filter network. It achieves the RIAA curve to within 1dB throughout the audio band, with the addition of an anti-rumble filter. High tolerance Japanese thin film resistors and German film capacitors are used throughout the design

Bluetooth

Bluetooth aptX

DAC

General:

DAC Chips:	Dual flagship Burr-Brown PCM1794As in monaural mode
Sampling Rates:	PCM up to 192kHz
Bit Rates:	Up to 24-bit
Formats:	Supports all formats. DSD is converted to PCM before playback

Measurements:

Signal-to-Noise Ratio:	130dB (A-weighted)
Residual Noise:	1.6uV (A-weighted)
Dynamic Range:	125dB
Total Harmonic Distortion + Noise:	-110dB or 0.0003%
Frequency Response:	DC (0Hz) to 22kHz @ 48kHz sample rate
Frequency Response:	DC (0Hz) to 44kHz @ 96kHz sample rate
Frequency Response:	DC (0Hz) to 88kHz @ 192kHz sample rate
Output Voltage:	5Vrms (+16.2dBu)

Output stage:	Uses OPA1612s
	Low Noise Panasonic Resistors
	Proprietary filtering topology

Other:	Crystek CCHD-575 oscillator — ultra-low clock jitter of 82fSec

Dimensions

44cm x 41.5cm x 13cm (w/d/h)

Weight

11.6kg (25.6lbs)

Shipping Weight

16.2kg (35.7lbs)

JAVA HI-FI

WARRANTY

JAVA Hi-Fi warrants to the original purchaser that the product purchased will be free of defects related to manufacturing, parts, materials, and workmanship under normal and accepted use for a period of two years from the date of original purchase.

Product Registration and Extended 3-Year Warranty

To extend your warranty for a further year (three years total), please register your product at https://javahifi. com/support/register-your-product

Terms and Conditions

This warranty does not cover damage due to accident, negligence or misuse, including repairs or alterations of products by a person other than JAVA Hi-Fi or its authorised partners.

If there's a problem, what will we do to correct the problem?

JAVA Hi-Fi will either repair the product or offer a replacement at no charge.

What does the warranty not cover?

This warranty does not cover:

1. Any product not purchased from JAVA Hi-Fi (or an Authorised Dealer).

2. Commercial use of the product or usage other than recommended by JAVA Hi-Fi.

3. Damage caused by accident, abuse, negligence, misuse, improper operation or failure to follow instructions contained in this manual.

4. Any service or modification performed by an unauthorised person or company

5. The temporary or permanent affixing of any items supplied or not supplied by the manufacturer with any adhesive, fastener or the like.

6. Use of batteries, power supplies or any other sources of power not specifically recommended by the manufacturer.

7. Inadequate repair work performed by the end user or any non-authorized repair centre.

What do you have to do?

To obtain warranty service, you must first contact the authorised dealer from which you purchased your amplifier. They will assist with determining the nature of the problem and the most appropriate solution for you.

How do you get your JAVA Hi-Fi product serviced?

If you think that your product needs to be serviced, contact your authorised dealer who will advise you regarding packing your product if you are required to return your product. Most simple faults can be corrected by your dealer so do not return your product to JAVA Hi-Fi without consulting your retailer or receiving approval from JAVA Hi-Fi.

Legal Status

You have legal rights as a consumer under applicable national legislation governing the sale of consumer goods which this Warranty is given without prejudice to and does not affect. Nothing herein shall be construed as an express or implied warranty in respect of the future performance of any JAVA Hi-Fi product (including any product or replacement product which is regulated, adjusted, repaired or replaced by JAVA Hi-Fi under this Warranty).

Limitations

1. All implied Warranties, including the Warranties of merchantability and fitness for particular purpose are limited to the duration of this Warranty. Upon expiration of this Warranty all implied Warranties, including the Warranties of merchantability and fitness for a particular purpose are hereby disclaimed.

2. All consequential and incidental damages are hereby disclaimed and excluded.

3. Some Countries do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. Some Countries do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from Country to Country.

4. The restrictions in this Warranty shall not apply where void.

Note: Unauthorised opening of the unit will invalidate any warranty claim. Any modifications to this product not expressly approved by Java Hi-fi could void the user's authority to operate this equipment.